HITRON SYSTEMS INC.

The Smart Choice for IP-based HD Surveillance

Genuine IP

Surveillance Solution

HITRON SYSTEMS
PRODUCT SPECIFICATIONS

About Us

Hitron Systems, Inc. is a world leading manufacturer of surveillance industry.
Since 1986, Hitron has provided world-class customers with the
advanced technology and products and with a seamless and extensive range
of products and system for the IP video surveillance and analogue as well,
that are designed to well meet the strict customer requirements with the
highest standard at competitive prices.
Our products are designed, manufactured and supplied in our own facilities in Korea
and going through a rigorous quality control without compromise.

The product coverage is as follows;

- Camera solution (IP Network, HD-SDI, Analogue, PTZ, IR, AF zoom, Mobile Vehicle, etc.)
- Display solution (CCTV monitors, PVM(Public View Monitor)
- DVR/NVR, NAS solution (~64ch)
- Large scale management software solution (~10,000 cameras)
- Accessories, etc

PROFILE

Foundation : Nov, 1986

Employees : 350

Main Business : CCTV Manufacture & Sales,
System Integration

Office : Head Quarter,
2 Domestic Offices
5 Oversea Offices

Factory : 3 Domestic Factories
1 Oversea Factory

Head Quarter :
109-19 Majeon-ri, Samjuk-myeon, Ansung-city, Kyungki-do, Korea

Seoul Office(Sales, R&D) :
Hitron B/D 726-5 Suso-dong, Kangnam-gu, SEOUL, KOREA
(135-220)

Oversea Office(Marketing, Support) :
HITRON USA, REVO America, Matrix, Q20/20, China Office.

Factory :
Ansung Factory, China Factory, Cheoan-an Factory
Daejeon Factory

Contents

Network Cameras

Encoder	HEV0118H
Entry HD/FHD	NBT-8253 NUT-8203R NDT-8203R NUT-8213R NDT-8213R NVT-8216R NDT-8224R NVT-8224R NUT-8224R
Mini	NCT-5211 / 5221 NCT-5241 / 5251 NDT-7212 / NDT-7202 NVT-7212 / NVT-7202 NUT-4202R
Standard FHD	HDB-T320 HDG-T322 HDG-T320 NUT-4201D NDT-3211 NVT-4211R
3Mega Pixel	NBT-6311 NDT-6331 NVT-6333R NUT-6311D
PTZ	NMX-12031B1 NFX-12033B1 NFX-12053B1
Specialty	NHT-4201 NHT-4202 NTT-4201 NDT-6341

NVR/VMS

HNR-E10450 / HNR-E20450
HNR-4418 / HNR-8418
HNR-8410(2) / HNR-16410(2)
HNR-8413 / HNR-16413
HNR-T4000 / HNR-T6400
Smartmanager / NC Titanium / Tive
Titanium Plus

ACCESSORIES

Controller	HUK-5000P
Camera Mounts	

NETWORK CAMERA

[Camera Specification Comparison chart]

Server	Server	Max Resolution				WDR	Day & Night		Lens				IR LED	Audio		Alarm		SD slot	PoE	Weather proof	Vandal	Pan/ Tilt	Wifi
		3MP	Full HD	UXGA	D1		TDN	DDN	AF zoom	Motorized Vari-focal	Vari-focal	Fixed		In	Out	In	Out						
Server	HEV0118H				V									V	V	V	V		V				
Box	NBT-6311	V				V	V							V	V	V	V	V	V				
	HDB-T320		V				V							V	V	V	V	V	V				
	NBT-8253		V				V											V	V				
Bullet	NUT-6311D	V				V	V			V			V					V	V	V			
	NUT-4201D		V				V			V			V					V	V	V			
	NUT-8224R		V				V				V		V					V	V	V			
	NUT-4202R		V				V						V			V	V	V	V	V			
	NUT-8213R		V				V					V	V					V	V	V			
	NUT-8203R			V			V					V	V					V	V	V			
Dome	NVT-6333R	V				V	V			V			V	V	V	V	V	V	V	V	V		
	NVT-4211R		V				V			V			V	V	V	V	V	V	V	V	V		
	HDG-T320		V				V				V			V	V	V	V	V	V	V	V		
	NVT-8216R		V				V					V	V					V	V	V	V		
	NVT-7202		V					V				V		V	V	V	V	V	V	V	V	V	V
	NVT-7212		V					V				V		V	V	V	V	V	V	V	V	V	
	NDT-6331	V					V			V						V	V	V	V				
	NDT-6321	V					V				V					V	V	V	V				
	NDT-3211		V				V			V						V	V	V	V				
	HDG-T322		V				V				V					V	V	V	V				
	NDT-8224R		V				V				V		V					V	V	V	V		
	NDT-7202		V					V				V				V	V	V	V				V
	NDT-7212		V					V				V				V	V	V	V				
	NDT-8213R		V				V					V	V					V	V				
	NDT-8203R			V		V	V					V	V					V	V				
PTZ	NFX-12053B1		V				V		V				V	V	V	V	V			V		V	
	NFX-12033B1		V				V		V					V	V	V	V		V			V	
	NMX-12031B1		V				V		V					V	V	V	V		V	V	V	V	
Special	NCT-5251			V		V						V		V	V			V					V
	NCT-5241			V		V						V		V	V			V	V				
	NCT-5221			V		V						V						V					V
	NCT-5211			V		V						V						V	V				
	NDT-6341	V					V					V						V	V				
	NHT-4201		V									V						V	V				
	NHT-4202		V									V						V	V				
	NTT-4201		V				V					V						V	V				

1CH Network Video Encoder

The Smart Choice for IP-based HD Surveillance

HEV0118H *Encoder*

» Professional Intelligent Network Video Server

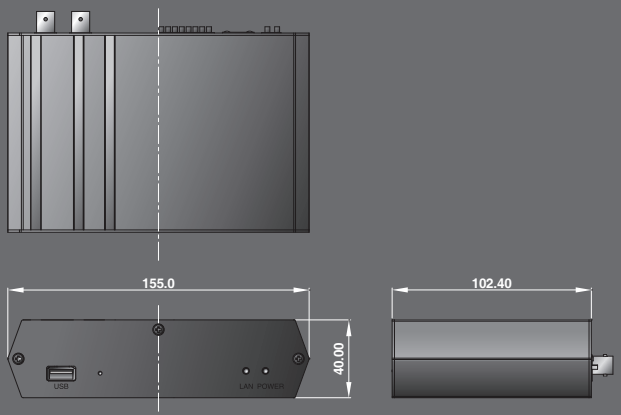
H.264 PoE ONVIF

Key Features

- H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
- Bi-Directional Audio: G.711
- Video Motion Detection
- Dual Streaming
- PoE Support
- USB 2.0
- Analog Video Output
- Alarm Buffering
- Triple Power : DC12V, AC24V, PoE

Dimensions

Unit: mm



Technical Specification

Model	HEV0118H
VIDEO	
Video Out	Yes
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Supported	704 x 576, 704 x 480 ~ 160 x 120
Frame Rate	30fps @ H.264 4CIF + 30fps @ MJPEG 4CIF
Multiple Streaming	Dual
IN/OUT	
Audio In/Out	In x 1/Out x 1 (G.711)
Alarm In/Out	In x 2 /Out x 1
RS485	RS485
Ethernet	10/100Mbps
Local Storage	No
FEATURE	
Motion Detection	Yes
Event Buffering (Pre & Post)	Yes
Privacy Masking	No
PrVA(Pre-recorded Voice Alert)	Yes (4f iles)
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	No
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP,NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP
NAS Support	No
JPEG push	No
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, SmartManager
MISCELLANEOUS	
Weatherproof	No
PoE	802.3af Class 2/3
Power	PoE , DC12V, AC24V
Power Consumption	Max. 5W
Operating Temperature	0 ~ 50°C
Humidity	0~90% RH
External Dimension	155 x 40 x 102.40 mm
Approvals	T.B.D

2 Megapixel Full HD Network Camera

The Smart Choice for IP-based HD Surveillance

NBT-8253 *Entry HD/FHD*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

H.264 PoE ONVIF Micro SD D&N DNR BLC

Key Features

- 1920 x 1080p Resolution Supported
- 2DNR (2 Dimensional Noise Reduction)
- True Day & Night
- BLC(Back Light Compensation)
- ONVIF Supported
- Micro SD Supported
- Triple Streaming (H.264, MPEG4, MJPEG)
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm

Technical Specification

Model	NBT-8253
IMAGE	
Image Sensor	1/2.8" SONY Exmor CMOS
Effective Pixels	1920(H) x 1080(V)
Lens	Optional (Megapixel, C/CS mount)
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.2Lux, B/W: 0.01Lux (F1.2, 50IRE)
AE / AWB	Yes
DNR	2DNR
D&N	True Day & Night
WDR	No
BLC	Yes
Built-in IR	-
Remote-Focus	No
Video	
Video Out	No
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	Full-HD, SXGA, HD, D1, VGA, CIF, QVGA
Max. Frame Rate	Capture Mode : 30fps @ All Resolution
Streaming	Triple Streaming
IN/OUT	
Audio In/Out	Terminal, 1 line input /1 line output
Alarm In/Out	Terminal, 1 TTL input / Terminal, 1 open collector
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes, max. 8 programmable zone
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Viewer	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer(iOS, Android)
MISCELLANEOUS	
Weatherproof	No
PoE	802.3af Class 0
Power	PoE , DC12V
Power Consumption	Max. 6W (T.B.D)
Operating Temperature	-10 ℃ ~ + 40 ℃
Humidity	0~90% RH
External Dimension	

Megapixel HD WeatherProof Network IR Bullet Camera

The Smart Choice for IP-based HD Surveillance

NUT-8203R *Entry HD/FHD*

» The network cameras offer advanced IP features and performance with HD resolution real-time H.264

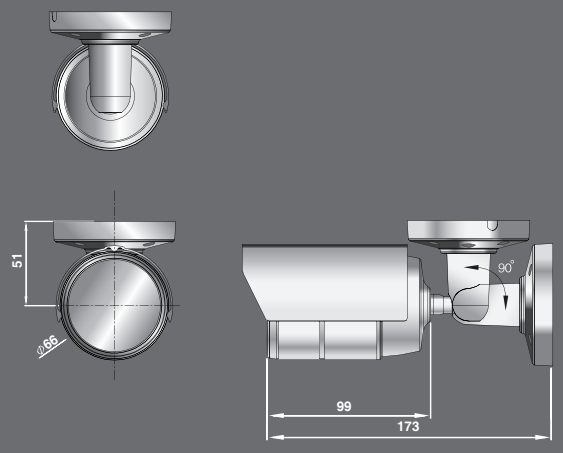
H.264 | PoE | ONVIF | Slot Micro SD | D&N | DNR | IRLED | IP67

Key Features

- HD Megapixel Resolution Supported
- Built in IR LED
- 2DNR (2 Dimensional Noise Reduction)
- True Day & Night
- ONVIF Supported
- Micro SD Supported
- Triple Streaming (H.264, MPEG4, MJPEG)
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP66

Dimensions

Unit: mm



Technical Specification

Model	NUT-8203R
IMAGE	
Image Sensor	1/4" CMOS
Effective Pixels	1600(H) x 1200(V)
Lens	Megapixel 2.8mm F1.8 Fixed Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color: 1.0Lux, B/W: 0.0Lux(F1.8, 50IRE, IR On)
AE / AWB	Yes
DNR	2DNR
D&N	True Day & Night
WDR	No
BLC	No
Built-in IR	24EA, 20m
Remote-Focus	No
Video	
Video Out	No
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	UXGA, SXGA, HD, SVGA, D1, VGA, CIF, QVGA
Max. Frame Rate	2M Capture Mode: 15fps @ All Resolution HD Capture Mode: 30fps @ All Resolution
Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes, max. 8 programmable zone
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Viewer	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer(iOS, Android)
MISCELLANEOUS	
Weatherproof	IP67
PoE	802.3af Class 0
Power	PoE, DC12V
Power Consumption	Max. 6W
Operating Temperature	-10 ℃ ~ + 45 ℃
Humidity	0~90% RH
External Dimension	φ 66 x 173.0 mm

Megapixel HD Network IR Dome Camera

The Smart Choice for IP-based HD Surveillance

NDT-8203R *Entry HD/FHD*

» The network cameras offer advanced IP features and performance with HD resolution real-time H.264

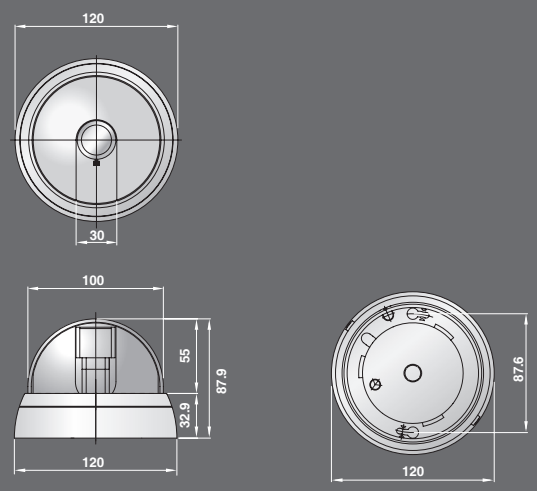
H.264 | PoE | ONVIF | SD Slot Micro SD | D&N | DNR | IR LED

Key Features

- HD Megapixel Resolution Supported
- Built in IR LED
- 2DNR (2 Dimensional Noise Reduction)
- True Day & Night
- ONVIF Supported
- Micro SD Supported
- Triple Streaming (H.264, MPEG4, MJPEG)
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NDT-8203R
IMAGE	
Image Sensor	1/4" CMOS
Effective Pixels	1600(H) x 1200(V)
Lens	Megapixel 2.8mm F1.8 Fixed Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color: 1.0Lux, B/W: 0.0Lux(F1.8, 50IRE, IR On)
AE / AWB	Yes
DNR	2DNR
D&N	True Day & Night
WDR	No
BLC	No
Built-in IR	24EA, 20m
Remote-Focus	No
Video	
Video Out	No
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	UXGA, SXGA, HD, SVGA, D1, VGA, CIF, QVGA
Max. Frame Rate	2M Capture Mode: 15fps @ All Resolution HD Capture Mode: 30fps @ All Resolution
Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes, max. 8 programmable zone
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Viewer	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer(iOS, Android)
MISCELLANEOUS	
Weatherproof	No
PoE	802.3af Class 0
Power	PoE , DC12V
Power Consumption	Max. 6W
Operating Temperature	-10 ℃ ~ + 45 ℃
Humidity	0~90% RH
External Dimension	φ120 x 87.9 mm (Bubble Diameter φ100)

2 Megapixel FHD WeatherProof Network IR Bullet Camera

The Smart Choice for IP-based HD Surveillance

NUT-8213R *Entry HD/FHD*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

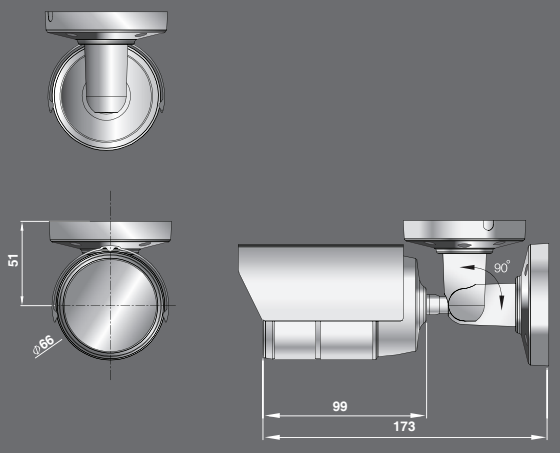
H.264 PoE ONVIF Micro SD D&N DNR BLC IR LED IP67

Key Features

- 1920 x 1080p Resolution Supported
- Built in IR LED
- 2DNR (2 Dimensional Noise Reduction)
- True Day & Night
- BLC(Back Light Compensation)
- ONVIF Supported
- Micro SD Supported
- Triple Streaming (H.264, MPEG4, MJPEG)
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP67

Dimensions

Unit: mm



Technical Specification

Model	NUT-8213R
IMAGE	
Image Sensor	1/2.8" CMOS
Effective Pixels	1920(H) x 1080(V)
Lens	Megapixel 3.7mm FIX
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.2Lux, B/W: 0.0Lux(F1.8, 50IRE, IR On)
AE / AWB	Yes
DNR	2DNR
D&N	True Day & Night
WDR	No
BLC	Yes
Built-in IR	24EA, 20m
Remote-Focus	No
Video	
Video Out	No
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	Full-HD, SXGA, HD, D1, VGA, CIF, QVGA
Max. Frame Rate	Capture Mode : 30fps @ All Resolution
Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes, max. 8 programmable zone
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Viewer	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer(iOS, Android)
MISCELLANEOUS	
Weatherproof	IP67
PoE	802.3af Class 0
Power	PoE, DC12V
Power Consumption	Max. 6W
Operating Temperature	-10℃ ~ + 45℃
Humidity	0~90% RH
External Dimension	φ 66 x 173.0 mm

2 Megapixel FHD Network IR Dome Camera

The Smart Choice for IP-based HD Surveillance

NDT-8213R *Entry HD/FHD*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

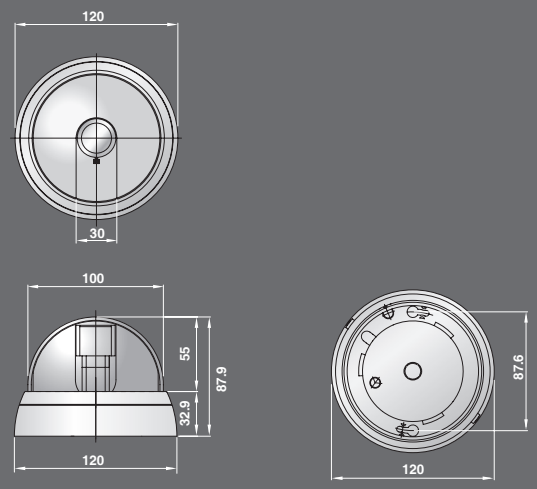
H.264 | PoE | ONVIF | Micro SD | D&N | DNR | BLC | IR LED

Key Features

- 1920 x 1080p Resolution Supported
- Built in IR LED
- 2DNR (2 Dimensional Noise Reduction)
- True Day & Night
- BLC(Back Light Compensation)
- ONVIF Supported
- Micro SD Supported
- Triple Streaming (H.264, MPEG4, MJPEG)
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NDT-8213R
IMAGE	
Image Sensor	1/2.8" SONY Exmor CMOS
Effective Pixels	1920(H) x 1080(V)
Lens	Megapixel 3.7mm FIX
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.2Lux, B/W: 0.0Lux(F1.8, 50IRE, IR On)
AE / AWB	Yes
DNR	2DNR
D&N	True Day & Night
WDR	No
BLC	Yes
Built-in IR	24EA, 20m
Remote-Focus	No
Video	
Video Out	No
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	Full-HD, SXGA, HD, D1, VGA, CIF, QVGA
Max. Frame Rate	Capture Mode : 30fps @ All Resolution
Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes, max. 8 programmable zone
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Viewer	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer(iOS, Android)
MISCELLANEOUS	
Weatherproof	No
PoE	802.3af Class 0
Power	PoE , DC12V
Power Consumption	Max. 6W
Operating Temperature	-10 ℃ ~ + 45 ℃
Humidity	0~90% RH
External Dimension	φ120 x 87.9 mm (Bubble Diameter φ100)

2 Megapixel FHD Vandal-Resistant Network Dome Camera

The Smart Choice for IP-based HD Surveillance

NVT-8216R *Entry HD/FHD*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

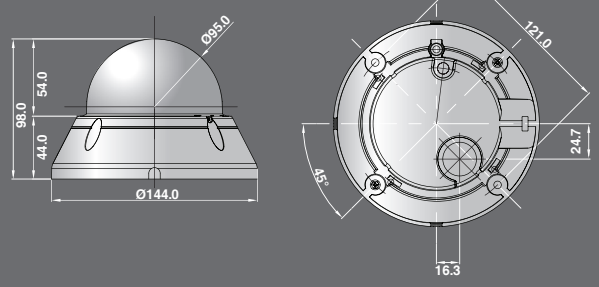
H.264 | PoE | ONVIF | Slot Micro SD | D&N | DNR | BLC | IR LED | IP66

Key Features

- 1920 x 1080p Resolution Supported
- Built in IR LED
- 2DNR (2 Dimensional Noise Reduction)
- True Day & Night
- BLC(Back Light Compensation)
- ONVIF Supported
- Micro SD Supported
- Triple Streaming (H.264, MPEG4, MJPEG)
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NVT-8216R
IMAGE	
Image Sensor	1/2.8" SONY Exmor CMOS
Effective Pixels	1920(H) x 1080(V)
Lens	Megapixel 3.7mm FIX
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.2Lux, B/W: 0.0Lux(F1.8, 50IRE, IR On)
AE / AWB	Yes
DNR	2DNR
D&N	True Day & Night
WDR	No
BLC	Yes
Built-in IR	24EA, 20m
Remote-Focus	No
Video	
Video Out	No
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	Full-HD, SXGA, HD, D1, VGA, CIF, QVGA
Max. Frame Rate	Capture Mode : 30fps @ All Resolution
Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes, max. 8 programmable zone
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Viewer	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer(iOS, Android)
MISCELLANEOUS	
Weatherproof	IP66
PoE	802.3af Class 0
Power	PoE , DC12V
Power Consumption	Max. 6W
Operating Temperature	-10 ℃ ~ + 45 ℃
Humidity	0~90% RH
External Dimension	φ144 x 98.0 mm (Bubble Diameter φ95.0)

2 Megapixel FHD Network Dome Camera

The Smart Choice for IP-based HD Surveillance

NDT-8224R *Entry HD/FHD*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

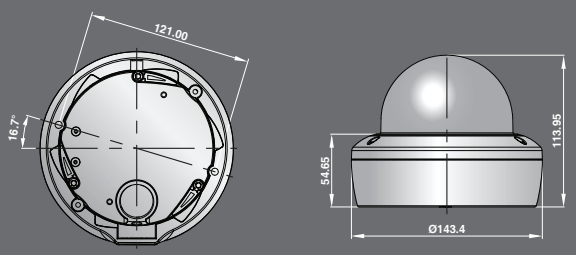
H.264 PoE ONVIF Slot Micro SD D&N DNR BLC IR LED

Key Features

- Full HD Megapixel resolution Supported
- 2DNR(2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter) - TDN
- ONVIF Supported
- BLC(Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NDT-8224R
IMAGE	
Image Sensor	1/2.8" CMOS
Effective Pixels	1920(H) x 1080(V)
Lens	3.5mm ~ 16mm Varifocal Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color: 1.0Lux(F1.2, 50IRE)
AE / AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	No
BLC	Yes
Built-in IR	30EA, 20m
Remote-Focus	No
Video	
Video Out	No
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	Full-HD, SXGA, HD, D1, VGA, CIF, QVGA
Max. Frame Rate	Capture Mode : 30fps @ All Resoiution
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD, Max 32GByte
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome, Opera
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remote Control	No
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Viewer	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer(iOS, Android)
MISCELLANEOUS	
Weatherproof	No
PoE	802.3at Class 0
Wi-Fi	No
Power	PoE, DC12V
Power Consumption	Max. 6W
Operating Temperature	-10 ℃ ~ + 45 ℃
Humidity	0~90% RH
External Dimension	Φ143.4 x 113.95 mm

2 Megapixel FHD Vandal-Resistant Network Dome Camera

The Smart Choice for IP-based HD Surveillance

NVT-8224R *Entry HD/FHD*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

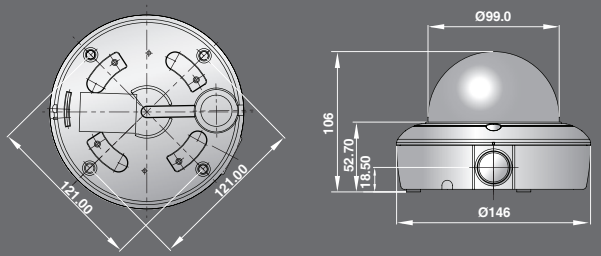
H.264 | PoE | ONVIF | Micro SD Slot | D&N | DNR | BLC | IR LED | IP66

Key Features

- Full HD Megapixel resolution Supported
- 2DNR(2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter) - TDN
- ONVIF Supported
- BLC(Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP66

Dimensions

Unit: mm



Technical Specification

Model	NVT-8224R
IMAGE	
Image Sensor	1/2.8" CMOS
Effective Pixels	1920(H) x 1080(V)
Lens	3.5mm ~ 16mm Varifocal Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color: 1.0Lux(F1.2, 50IRE)
AE / AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	No
BLC	Yes
Built-in IR	36EA, 20m
Remote-Focus	No
Video	
Video Out	No
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	Full-HD, SXGA, HD, D1, VGA, CIF, QVGA
Max. Frame Rate	Capture Mode : 30fps @ All Resoiution
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD, Max 32GByte
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome, Opera
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remote Control	No
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Viewer	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer(iOS, Android)
MISCELLANEOUS	
Weatherproof	IP66
PoE	802.3at Class 0
Wi-Fi	No
Power	PoE, DC12V
Power Consumption	Max. 6W
Operating Temperature	-10 ℃ ~ + 45 ℃
Humidity	0~90% RH
External Dimension	Φ146 x 106 mm

2 Megapixel FHD WeatherProof Network IR Bullet Camera

The Smart Choice for IP-based HD Surveillance

NUT-8224R *Entry HD/FHD*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

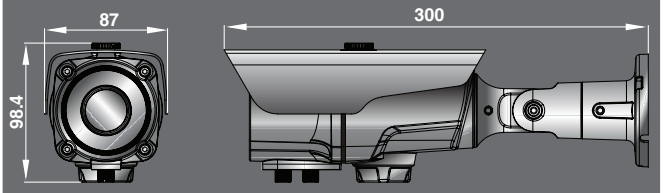
H.264 PoE ONVIF Micro SD D&N DNR BLC IRLED IP66

Key Features

- Full HD Megapixel resolution Supported
- 2DNR(2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter) - TDN
- ONVIF Supported
- BLC(Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP66

Dimensions

Unit: mm



Technical Specification

Model	NUT-8224R
IMAGE	
Image Sensor	1/2.8" CMOS
Effective Pixel	1920(H) x 1080(V)
Lens	3.5mm ~ 16mm Varifocal Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color: 1.0Lux(F1.2, 50IRE)
AE / AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	No
BLC	Yes
Built-in IR	36EA, 20m
Remote-Focus	No
Video	
Video Out	No
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	Full-HD, SXGA, HD, D1, VGA, CIF, QVGA
Max. Frame Rate	Capture Mode : 30fps @ All Resoiution
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	Built-in Mic (optional)
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD, Max 32GByte
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome, Opera
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remote Control	No
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Viewer	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer(iOS, Android)
MISCELLANEOUS	
Weatherproof	Yes
PoE	802.3at Class 0
Wi-Fi	No
Power	PoE, DC12V
Power Consumption	Max. 6W
Operating Temperature	-10 ℃ ~ + 45 ℃
Humidity	0~90% RH
External Dimension	300 x 98.4 x 87mm

Megapixel HD Network Basic Cube Camera

The Smart Choice for IP-based HD Surveillance

NCT-5211/5221 *Mini*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

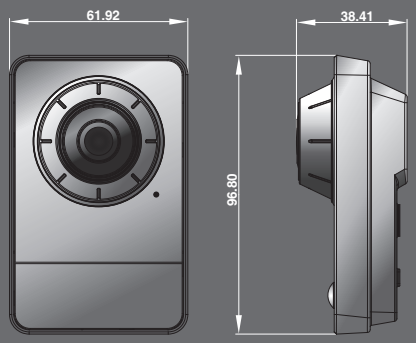
H.264 | PoE | ONVIF | SD Slot Micro SD | DNR | Wi-Fi

Key Features

- HD Megapixel Resolution Supported
- 2DNR(2 Dimensional Noise Reduction)
- ONVIF Supported
- Micro SD Supported
- Triple Compression (H.264, MPEG4 , MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NCT-5211	NCT-5221
IMAGE		
Image Sensor	1/4" CMOS	
Lens	Fixed f=2.6mm	
Scanning Mode	Progressive Scan	
Min. Illumination	1Lux	
AE/AWB	Yes	
DNR	2DNR	
D&N	No	
WDR	No	
DIS	No	
BLC	No	
ABF/RF	No	
IR	No	
VIDEO		
Video Out	No	
Progressive Encoding	Yes	
Compression	H.264(BP/MP/HP), MPEG4, MJPEG	
Resolution Supported	1600x1200, 720p, D1, VGA, QVGA	
Frame Rate	1600x1200p@15fps, 1280x720p@30fps	
Multiple Streaming	Triple	
IN/OUT		
Audio In/Out	No	
Alarm In/Out	No	
RS485	No	
Ethernet	10/100Mbps	
Local Storage	Micro SD	
FEATURE		
Motion Detection	Max.8 Areas	
Event Buffering (Pre & Post)	Yes (2s/60s)	
Privacy Masking	Yes	
PrVA(Pre-recorded Voice Alert)	Yes	
Video Analytics	No	
Cross Web Browser	Yes	
FTP Image Upload	Yes	
ONVIF Certificate	Yes	
SYSTEM		
Network Time Sync	Yes	
Zero Configuration	Yes	
Security	Password Protection, IP Filtering, HTTPS, SSL	
NETWORK		
Max. Connections	10	
Protocols	"IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP,NTP, DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,SNMP,Bonjour"	
NAS Support	Yes	
JPEG push	Yes	
DDNS	Yes (DDNS)	
Remote Client	Web, NC Titanium, SmartManager	
MISCELLANEOUS		
Weatherproof	No	
PoE	802.3at Class 2	No
Power	PoE, DC5V	DC5V
Power Consumption	3.5W	
Operating Temperature	0 ~ 40°C	
Humidity	0~90% RH	
External Dimension	61.92 x 38.41 x 96.80 mm	
MECHANICAL		
PIR Sensor	No	
Illumination LED	No	
SPEAK & MIC	No	
Wifi	No	Yes

Megapixel HD Network Special Cube Camera

The Smart Choice for IP-based HD Surveillance

NCT-5241/5251 *Mini*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

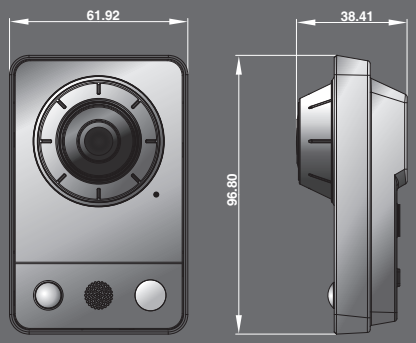
H.264 | PoE | ONVIF | Micro SD | DNR | Wi-Fi | LED

Key Features

- HD Megapixel Resolution Supported
- PIR Sensor
- Illumination LED
- Built-in MIC/Speaker
- 2DNR(2 Dimensional Noise Reduction)
- ONVIF Supported
- Micro SD Supported
- Triple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NCT-5241	NCT-5251
IMAGE		
Image Sensor	1/4" CMOS	
Lens	Fixed f=2.6mm	
Scanning Mode	Progressive Scan	
Min. Illumination	1Lux(LED off), 0Lux(LED on)	
AE/AWB	Yes	
DNR	2DNR	
D&N	No	
WDR	No	
DIS	No	
BLC	No	
ABF/RF	No	
IR	No	
VIDEO		
Video Out	No	
Progressive Encoding	Yes	
Compression	H.264(BP/MP/HP), MPEG4, MJPEG	
Resolution Supported	1600x1200, 720p, D1, VGA, QVGA	
Frame Rate	1600x1200p@15fps, 1280x720p@30fps	
Multiple Streaming	Triple	
IN/OUT		
Audio In/Out	Built IN	
Alarm In/Out	No	
RS485	No	
Ethernet	10/100Mbps	
Local Storage	Micro SD	
FEATURE		
Motion Detection	Max.8 Areas	
Event Buffering (Pre & Post)	Yes (2s/60s)	
Privacy Masking	Yes	
PrVA(Pre-recorded Voice Alert)	Yes	
Video Analytics	No	
Cross Web Browser	Yes	
FTP Image Upload	Yes	
ONVIF Certificate	Yes	
SYSTEM		
Network Time Sync	Yes	
Zero Configuration	Yes	
Security	Password Protection, IP Filtering, HTTPS, SSL	
NETWORK		
Max. Connections	10	
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP,NTP, DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour	
NAS Support	Yes	
JPEG push	Yes	
DDNS	Yes (DDNS)	
Remote Client	Web, NC Titanium, SmartManager	
MISCELLANEOUS		
Weatherproof	No	
PoE	802.3at Class 2	No
Power	PoE, DC 5V	DC 5V
Power Consumption	3.5W	
Operating Temperature	0 ~ 40°C	
Humidity	0~90% RH	
External Dimension	61.92 x 38.41 x 96.80 mm	
MECHANICAL		
PIR Sensor	Yes	
Illumination LED	Yes	
SPEAK & MIC	Yes	
Wifi	No	Yes

2 Megapixel FHD Network Mini Dome Camera

The Smart Choice for IP-based HD Surveillance

NDT-7212/7202 *Mini*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

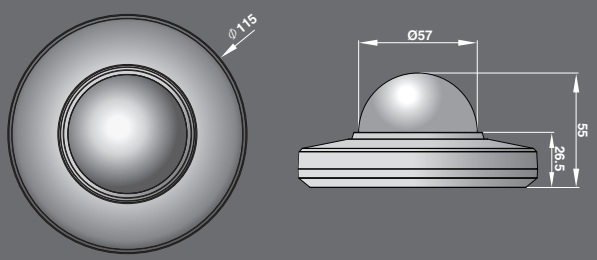
H.264 | PoE | ONVIF | Slot Micro SD | DNR | BLC | Wi-Fi

Key Features

- 1920 x 1080p Resolution Supported
- 2DNR(2 Dimensional Noise Reduction)
- ONVIF Supported
- BLC(Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NDT-7202	NDT-7212
IMAGE		
Image Sensor	1/2.8" SONY Exmor CMOS	
Lens	Megapixel 3.7mm FIX	
Scanning Mode	Progressive Scan	
Min. Illumination	Color: 0.2Lux(F1.8, 50IRE)	
AE/AWB	Yes	
DNR	2DNR	
D&N	digital D&N	
WDR	No	
DIS	No	
BLC	Yes	
Built-in IR	No	
Remote-Focus	No	
VIDEO		
Video Out	Yes (Phone Jack Style)	
Progressive Encoding	Yes	
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG	
Resolution Supported	Full-HD, SXGA, HD, D1, VGA, CIF, QVGA	
Frame Rate	Full HD, 30fps @ All Resolution	
Multiple Streaming	Triple Streaming	
IN/OUT		
Audio In/Out	No	
Alarm In/Out	1/1	
RS485	No	
Ethernet	10/100Mbps	
Local Storage	Micro SD	
FEATURE		
Motion Detection	Yes, max. 8 programmable zone	
Event Buffering (Pre & Post)	Yes	
Privacy Masking	Yes (8 windows)	
PrVA(Pre-recorded Voice Alert)	No	
Video Analytics	No	
Cross Web Browser	Safari, Firefox, Google Chrome	
FTP Image Upload	Yes	
ONVIF Certificate	Yes	
SYSTEM		
Network Time Sync	Yes	
Zero Configuration	Yes	
Security	Password Protection, IP Filtering, HTTPS, SSL	
NETWORK		
Max. Connections	10	
Protocols	"IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour"	
NAS Support	Yes	
JPEG push	Yes	
DDNS	Yes (DDNS)	
Remote Client	Web, NC-Titanium, SmartManager	
MISCELLANEOUS		
Weatherproof	No	
PoE	802.3af Class 0	
Wi-Fi	EEE802.11(b/g/n)	No
Power	PoE , DC12V	
Power Consumption	DC 12V, 375mA, 4.5W / PoE 802.3af Class 0	
Operating Temperature	-10° C~ + 40° C	
Humidity	0~80% (non-condensing)	
External Dimension	55(H)mm x 115(Ø)mm	

2 Megapixel FHD Network Mini PT Dome Camera

The Smart Choice for IP-based HD Surveillance

NVT-7212/7202 *Mini*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

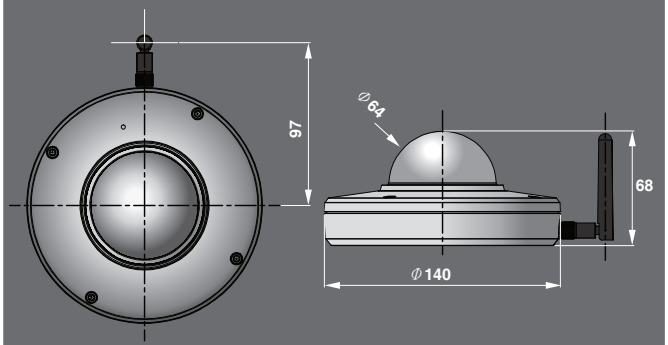
H.264 | PoE | ONVIF | Slot Micro SD | DNR | BLC | Wi-Fi | IP66

Key Features

- 1920 x 1080p Resolution Supported
- 2DNR(2 Dimensional Noise Reduction)
- ONVIF Supported
- BLC(Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Vandal Proof

Dimensions

Unit: mm



Technical Specification

Model	NVT-7202	NVT-7212
IMAGE		
Image Sensor	1/2.8" CMOS	
Effective Pixels	1920(H) x 1080(V)	
Lens	Megapixel 3.7mm FIX	
Scanning Mode	Progressive Scan	
Min. Illumination	Color: 0.2Lux(F1.8, 50IRE)	
AE/AWB	Yes	
DNR	2DNR	
D&N	Yes	
WDR	No	
BLC	Yes	
Built-in IR	No	
Remote Pan/Tilt	Tilt travel: 0~90˚, Pan travel: 0~370˚	
VIDEO		
Video Out	Yes (Phone Jack Style)	
Progressive Encoding	Yes	
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG	
Resolution Supported	Full-HD, SXGA, HD, D1, VGA, CIF, QVGA	
Frame Rate	Capture Mode : 30fps @ All Resolution	
Multiple Streaming	Triple Streaming	
IN/OUT		
Audio	Built-In MIC, Line out Spreaker	
Alarm	1 Input, 1 Output	
RS485	No	
Ethernet	10/100Mbps	
Local Storage	Micro SD	
FEATURE		
Motion Detection	Yes (Total 16 Include/Exclude windows)	
Event Buffering (Pre & Post)	Yes	
Privacy Masking	Yes (8 windows)	
PrVA(Pre-recorded Voice Alert)	No	
Video Analytics	No	
Cross Web Browser	Safari, Firefox, Google Chrome	
FTP Image Upload	Yes	
ONVIF Certificate	Yes	
Easy Remocon	Yes	
SYSTEM		
Network Time Sync	Yes	
Zero Configuration	Yes	
Security	Password Protection, IP Filtering, HTTPS, SSL	
NETWORK		
Max. Connections	10	
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour	
NAS Support	Yes	
JPEG push	Yes	
DDNS	Yes (DDNS)	
Remote Client	Web, NC-Titanium, SmartManager	
MISCELLANEOUS		
Weatherproof	IP65	IP66
PoE	802.3af Class0	
Wi-Fi	EEE802.11(b/g/n)	No
Power	PoE , DC12V	
Power Consumption	Max. 4.5Watt	
Operating Temperature	-10° C~ + 50° C	
Humidity	0~90% RH	
External Dimension	68mm x 140 ø	

2 Megapixel FHD WeatherProof Network Mini IR Bullet Camera

The Smart Choice for IP-based HD Surveillance

NUT-4202R *Mini*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

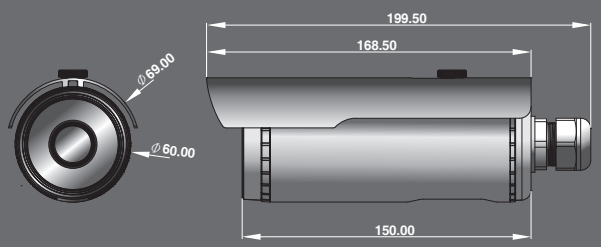
H.264 | PoE | ONVIF | Micro SD | DNR | BLC | IR LED | IP67

Key Features

- Full-HD 1080p Resolution Supported
- Built in IR (20EA)
- 2DNR(2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- Smart IR
- ONVIF Supported
- BLC(Back Light Compensation)
- Micro SD Supported
- Multiple Compression
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP67

Dimensions

Unit: mm



Technical Specification

Model	NUT-4202R
IMAGE	
Image Sensor	1/2.8" SONY Exmor CMOS
Lens	Fixed f=3.7mm, F1.8
Scanning Mode	Progressive Scan
Min. Illumination	Color: 1.6Lux, B/W: 0Lux(F1.8, 50IRE with IR On)
AE/AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	No
DIS	No
BLC	Yes
Built-in IR	20EA, Max 20m
Remote-Focus	No
VIDEO	
Video Out	Yes (Phone Jack)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	1080p, 720p, D1, VGA, QVGA
Frame Rate	1920x1080p@30fps, 1280x720p@30fps
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	In x 1 /Out x 1
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remocon	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP,NTP, DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,SNMP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, NC-Titanium, SmartManager
MISCELLANEOUS	
Weatherproof	IP67
PoE	802.3af Class 2
Power	PoE, DC12V, AC24V
Power Consumption	MAX. 6W
Operating Temperature	-10° C~ + 50° C
Humidity	0~90% RH
External Dimension	199.50 x ø 69 with sunshield

2 Megapixel Full HD Network Camera

The Smart Choice for IP-based HD Surveillance

HDB-T320 *Standard*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

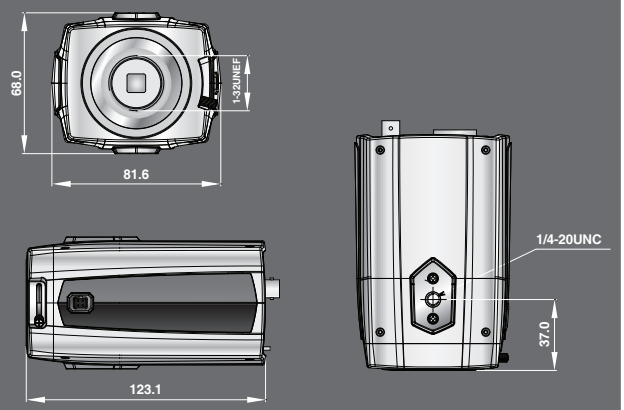
H.264 | PoE | ONVIF | SD Slot Micro SD | D&N | DNR | BLC

Key Features

- Full-HD 1080p Resolution Supported
- 2DNR (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- ONVIF Supported
- BLC (Back Light Compensation)
- Two-way Audio
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert

Dimensions

Unit: mm



Technical Specification

Model	HDB-T320
IMAGE	
Image Sensor	1/2.7" CMOS
Lens	Optional (Megapixel, C/CS mount)
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.9 Lux, B/W: 0.2 Lux @ F1.2, 50IRE
AE/AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	No
DIS	No
BLC	Yes
VIDEO	
Video Out	1 BNC (Max. D1 for installation)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Supported	1080p, 720p, D1, Half-D1, VGA, QVGA, CIF
Frame Rate	30fps @ H.264 1080p + 5fps @ MJPEG QVGA, 25fps @ H.264 1080p + 30fps @ MJPEG VGA 30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Dual
IN/OUT	
Audio In/Out	In x 1/Out x 1 (G.711)
Alarm In/Out	In x 1 /Out x 1
RS485	RS485
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes (up to 64MB)
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	Yes (3 files)
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, SmartManager
MISCELLANEOUS	
Weatherproof	No
PoE	802.3af Class 2
Power	PoE , DC12V, AC24V
Power Consumption	Max. 3.5W(T.B.D)
Operating Temperature	0℃~+50℃
Humidity	0~90% RH
External Dimension	68(H) x 81.6(W) x 123.1(D) mm

2 Megapixel Full HD Network Dome Camera

The Smart Choice for IP-based HD Surveillance

HDG-T322 *Standard*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

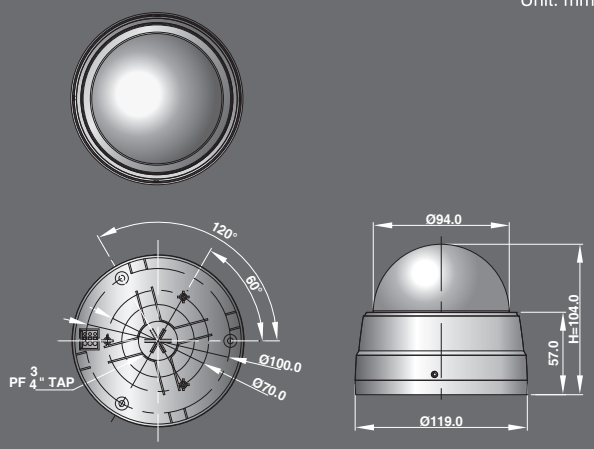
H.264 | PoE | ONVIF | Slot Micro SD | D&N | DNR | BLC

Key Features

- Full-HD 1080p Resolution Supported
- 2DNR (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- ONVIF Supported
- BLC (Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	HDG-T322
IMAGE	
Image Sensor	1/2.7" CMOS
Lens	Megapixel 3~9mm Variable Focal F1.2(Tamron)
Scanning Mode	Progressive Scan
Min. Illumination	Color: 2.5Lux, B/W: 0.2Lux(F1.2, 50IRE)
AE/AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	No
DIS	No
BLC	Yes
VIDEO	
Video Out	Yes (2P Header for Installtion)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Supported	1080p, 1280x1024, 720p, D1, Half-D1, VGA, QVGA, CIF
Frame Rate	30fps @ H.264 1080p + 5fps @ MJPEG QVGA 25fps @ H.264 1080p + 30fps @ MJPEG VGA 30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Dual
IN/OUT	
Audio In/Out	No
Alarm In/Out	In x 1 /Out x 1
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes(10s/180s)
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, SmartManager
MISCELLANEOUS	
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC12V
Power Consumption	Max. 3.5W(T.B.D)
Operating Temperature	0 ~ 50°C
Humidity	0~90% RH
External Dimension	Φ119 x 104 mm

2 Megapixel Full HD Network Vandal-Resistant Dome Camera

The Smart Choice for IP-based HD Surveillance

HDG-T320 *Standard*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

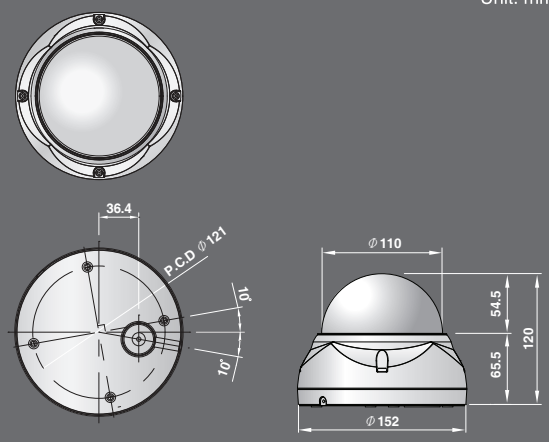
H.264 | PoE | ONVIF | Slot Micro SD | D&N | DNR | BLC | IP66

Key Features

- Full-HD 1080p Resolution Supported
- 2DNR (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- ONVIF Supported
- BLC (Back Light Compensation)
- Two-way Audio
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert
- IP66

Dimensions

Unit: mm



Technical Specification

Model	HDG-T320
IMAGE	
Image Sensor	1/2.7" CMOS
Lens	Megapixel 3~9mm Vari-focal F1.2(Tamron)
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.9 Lux, B/W: 0.2 Lux @ F1.2, 50IRE
AE/AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	No
DIS	No
BLC	Yes
VIDEO	
Video Out	1 BNC (Max. D1 for installation)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Supported	1080p, 720p, D1, Half-D1, VGA, QVGA, CIF
Frame Rate	30fps @ H.264 1080p + 5fps @ MJPEG QVGA 25fps @ H.264 1080p + 30fps @ MJPEG VGA 30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Dual
IN/OUT	
Audio In/Out	In x 1/Out x 1 (G.711)
Alarm In/Out	In x 1 /Out x 1
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes (10s/180s)
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	Yes (3 files)
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, SmartManager
MISCELLANEOUS	
Weatherproof	IP66
PoE	802.3af Class 2
Power	PoE, DC12V/AC24V
Power Consumption	Max. 3.5Watt (T.B.D)
Operating Temperature	-10℃~+50℃
Humidity	0~90% RH
External Dimension	120(H)mm x 152(Ø)mm

2 Megapixel Full HD WeatherProof Network IR Bullet Camera

The Smart Choice for IP-based HD Surveillance

NUT-4201D *Standard*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

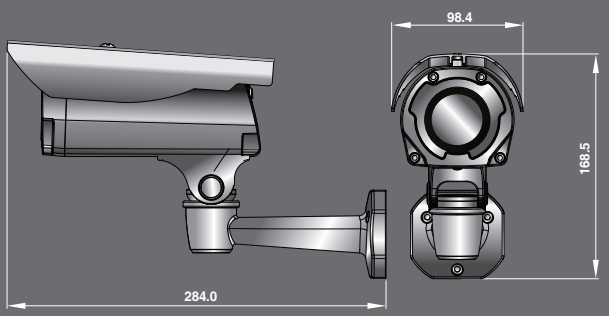
H.264 | PoE | ONVIF | Micro SD | D&N | DNR | BLC | IRLED | IP66 | Smart Focus | PC-less set up

Key Features

- Full-HD 1080p Resolution Supported
- Built in IR
- 2DNR(2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- Smart Focus
- Smart IR
- ONVIF Supported
- BLC(Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP66
- Built in Heater

Dimensions

Unit: mm



Technical Specification

Model	NUT-4201D
IMAGE	
Image Sensor	1/2.8" CMOS, Sony IMX122
Lens	Tamron 3.0mm ~ 9mm, F1.2 Motorized Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.2Lux, B/W: 0Lux(F1.2, 50IRE with IR On)
AE/AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	No
DIS	No
BLC	BLC
Built-in IR	32EA, Max 25m
Remote-Focus	Smart-Focus
VIDEO	
Video Out	Yes (Phone Jack)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	1080p, 720p, D1, Half-D1, VGA, QVGA, CIF
Frame Rate	30fps @ H.264 1080p + 5fps @ MJPEG QVGA 25fps @ H.264 1080p + 30fps @ MJPEG VGA 30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remocon	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, NC-Titanium, SmartManager
MISCELLANEOUS	
Weatherproof	Yes
PoE	802.3af Class 2
Wi-Fi	No
Power	PoE , DC12V
Power Consumption	Max. 4.3W / 24W(Heater on)
Operating Temperature	-10° C~ + 50° C / -30° C~ + 50° C (with Heater)
Humidity	0~90% RH
External Dimension	284 x 98.4 x 168.5 mm
Weight	1100g

2 Megapixel Full HD Network Dome Camera

The Smart Choice for IP-based HD Surveillance

NDT-3211 *Standard*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

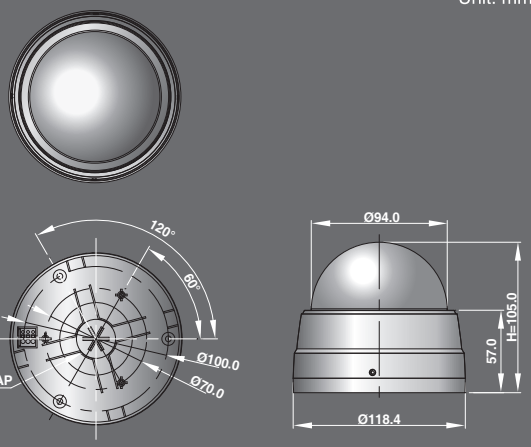
H.264 | PoE | ONVIF | Micro SD Slot | D&N | DNR | BLC | Smart Focus | PC-less set up

Key Features

- Full-HD 1080p Resolution Supported
- 2DNR(2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- Smart Focus
- ONVIF Supported
- BLC(Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NDT-3211
IMAGE	
Image Sensor	1/2.7" CMOS
Effective pixel	1920(H) x 1080(V)
Lens	Megapixel 3~9mm Vari-focal, F1.2 Motorized-Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.9Lux, B/W: 0.2Lux(F1.2, 50IRE)
AE/AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	No
DIS	No
BLC	Yes
Built-in IR	No
Remote-Focus	Smart-Focus
VIDEO	
Video Out	Yes (PIN Jack Style)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	1080p, 1280x1024, 720p, D1, Half-D1, VGA, QVGA, CIF
Frame Rate	"30fps @ H.264 1080p + 5fps @ MJPEG QVGA 25fps @ H.264 1080p + 30fps @ MJPEG VGA 30fps @ H.264 720p + 30fps @ MJPEG 720p"
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	In x 1 /Out x 1
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remote Control	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	"IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour"
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, NC-Titanium, SmartManager
MISCELLANEOUS	
Weatherproof	No
PoE	802.3af Class 2
Wi-Fi	No
Power	PoE, DC12V
Power Consumption	Max. 3.5W(T.B.D)
Operating Temperature	-10°C ~ 45°C
Humidity	0~90% RH
External Dimension	Φ118.4 x 105mm(V)

2 Megapixel Full HD Network Vandal-Resistant Dome Camera

The Smart Choice for IP-based HD Surveillance

NVT-4211R *Standard*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

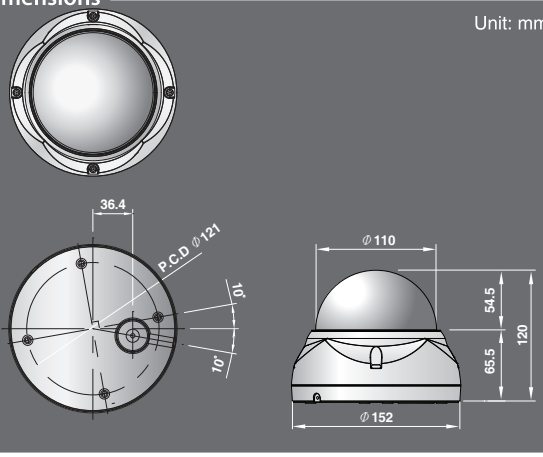
H.264 | PoE | ONVIF | Slot Micro SD | D&N | DNR | BLC | IRLED | IP66 | Smart Focus | PC-less set up

Key Features

- x3 Motorized Zoom & Focus Lens
- Full-HD 1080p Resolution Supported
- Triple Compression(H.264, MPEG4, MJPEG)
- Triple Streaming
- Built in IR (24EA)
- 2DNR(2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- Two-way Audio
- Auto Focusing when D/N Transition
- Remote Zoom & Focus Control via Network
- ONVIF Supported
- BLC(Back Light Compensation)
- Micro SD Supported
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering / FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP66
- Triple Power : DC12V, PoE, AC24V

Dimensions

Unit: mm



Technical Specification

Model	NVT-4211R
IMAGE	
Image Sensor	1/2.8" CMOS
Effective Pixel	1920(H) x 1080(V)
Lens	Thamron 3.0mm ~ 9mm, F1.2 Motorized Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.2 Lux, B/W: 0 Lux @ F1.2, 50IRE
IR	24 x IR(25m)
AE/AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	No
BLC	BLC
VIDEO	
Video Out	Yes (D1 for Installation)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Supported	1080p, 720p, D1, Half-D1, VGA, QVGA, CIF
Frame Rate	30fps @ H.264 1080p 30fps @ H.264 720p
Multiple Streaming	Triple(2x H.264 and 1x MJPEG)
IN/OUT	
Audio In/Out	Yes
Alarm In/Out	Yes
Ethernet	10/100Mbps
Local Storage	Micro SD
WiFi	No
PIR Sensor	No
Built-In Mic/Speaker	No
White LED	No
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes (up to 64MB)
Privacy Masking	Yes (8 windows)
Auto Focus when D/N Transition	Yes
Remote Focus & Zoom Control	Yes
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP,NTP, DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Zeroconfig,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, SmartManager, NC-Titanium
MISCELLANEOUS	
Weatherproof	Yes
PoE	802.3af Class 2
Power	PoE , DC12V, AC24V
Power Consumption	Max. 6.5W
Operating Temperature	-10°C ~ 50°C
Humidity	0~90% RH
External Dimension	120(H) x 152(ø)mm

3 Megapixel Full HD WDR Network Camera

The Smart Choice for IP-based HD Surveillance

NBT-6311 *3 Megapixel*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

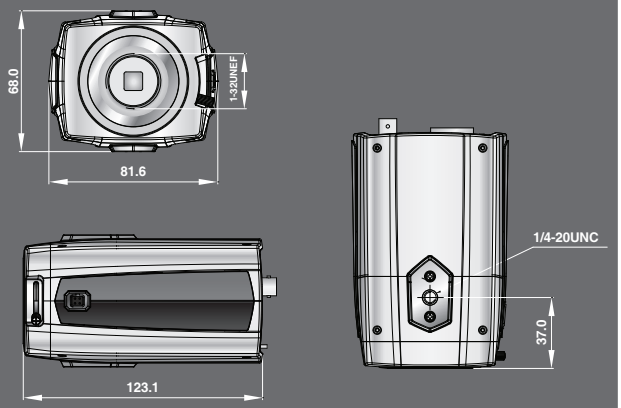
H.264 PoE ONVIF Micro SD D&N DNR BLC

Key Features

- 3M(2048x 1536) Resolution Supported
- 2DNR (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- ONVIF Supported
- BLC (Back Light Compensation)
- Two-way Audio
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert

Dimensions

Unit: mm



Technical Specification

Model	NBT-6311
IMAGE	
Image Sensor	1/2.8" CMOS
Lens	Optional (Megapixel, C/CS mount)
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.2Lux, B/W: 0.2Lux (F1.2, 50IRE)
AE/AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	Digital WDR(ATR-EX)
DIS	No
BLC	Yes
VIDEO	
Video Out	No
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Supported	2048x 1536, 1080p, 720p, D1, Half-D1, VGA, QVGA, CIF
Frame Rate	3M Capture Mode : 20fps@2048x1536, Full-HD Capture Mode : 30fps in all Resolutions
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	In x 1/Out x 1 (G.711)
Alarm In/Out	In x 1 /Out x 1
RS485	RS485
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes (up to 64MB)
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	Yes (3 files)
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remote Control	Yes (AD Key)
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer (iOS, Android)
MISCELLANEOUS	
Weatherproof	No
PoE	802.3af Class 0
Power	PoE , DC12V, AC24V
Power Consumption	Max. 3.5W(T.B.D)
Operating Temperature	-10℃~ 50℃
Humidity	0~90% RH
External Dimension	68(H) x 81.6(W) x 123.1(D) mm

3 Megapixel Full HD WDR Network Dome Camera

The Smart Choice for IP-based HD Surveillance

NDT-6331 *3 Megapixel*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

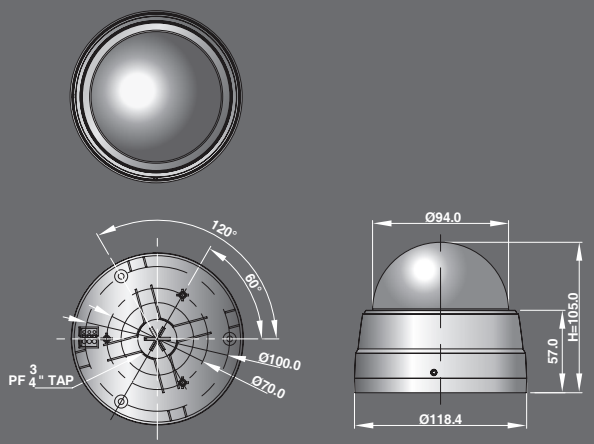
H.264 | PoE | ONVIF | Micro SD | D&N | DNR | BLC | Smart Focus | PC-less set up

Key Features

- 3M(2048x 1536) Resolution Supported
- 2DNR (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- WDR Supported
- ONVIF Supported
- BLC (Back Light Compensation)
- SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NDT-6311
IMAGE	
Image Sensor	1/2.8" SONY Exmor CMOS
Lens	Megapixel 3~9mm Vari-focal, F1.2 Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.2Lux, B/W: 0.01Lux(F1.2, 50IRE)
AE	Yes
White Balance	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	ART-EX (D-WDR)
DIS	No
BLC	Yes
Built-in IR	No
Remote-Focus	No
Video	
Video Out	Yes (3.5pi Stereo Jack)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	2048x1536(3M), 1080p, 720p, 720x576, 720x480, VGA, CIF, QVGA
Max. Frame Rate	"20fps @ H.264 3M 30fps @ H.264 1080p"
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	In x 1 /Out x 1
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remote Control	No
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	"IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP,NTP, DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,SNMP,Bonjour"
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Viewer	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer(iOS, Android)
MISCELLANEOUS	
Weatherproof	No
PoE	802.3at Class 0
Wi-Fi	No
Power	PoE, DC12V
Power Consumption	Max. 3.5W(T.B.D)
Operating Temperature	-10℃ ~ + 50℃
Humidity	0~90% RH
External Dimension	Φ118.4 x 105mm(V)

3 Megapixel Full HD WDR Network Vandal-Resistant Dome Camera

The Smart Choice for IP-based HD Surveillance

NVT-6333R *3 Megapixel*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

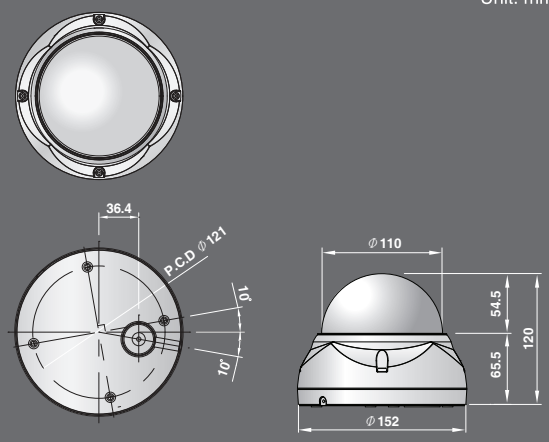
H.264 | PoE | ONVIF | Slot Micro SD | D&N | DNR | BLC | IR LED | IP66 | Smart Focus | PC-less set up

Key Features

- 3M(2048x 1536) Resolution Supported
- Built in IR (24EA.)
- 2DNR(2 Dimensional Noise Reduction)
- WDR
- Day & Night (IR Cut Filter)
- Auto Focusing when D/N Transition
- Smart Focus
- Smart IR
- ONVIF Supported
- BLC(Back Light Compensation)
- Two-way Audio
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert
- IP66

Dimensions

Unit: mm



Technical Specification

Model	NVT-6333R
IMAGE	
Image Sensor	1/2.8" CMOS
Effective Pixels	2048(H) x 1536(V)
Lens	Tamron 3.0mm ~ 9mm, F1.2 Motorized Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.2Lux, B/W: 0.01Lux(F1.2, 50IRE)
AE/AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	Yes
BLC	Yes
Built-in IR	24EA, 20m
Remote-Focus	Smart Focus
VIDEO	
Video Out	Yes (PIN Jack Style)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	QXGA, Full-HD, SXGA, HD, D1, VGA, CIF, QVGA
Frame Rate	3M Capture Mode : 20fps@2048x1536, Full-HD Capture Mode : 30fps@ All Resolution
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	In x 1/Out x 1 (G.711)
Alarm In/Out	In x 1 /Out x 1
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	Yes (3files)
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remocon	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, NC-Titanium, SmartManager
MISCELLANEOUS	
Weatherproof	IP66
PoE	802.3af Class0
Wi-Fi	No
Power	PoE , DC12V, AC24V
Power Consumption	Max, 7W
Operating Temperature	-10° C~ + 50° C / -30° C~ + 50° C (with Heater)
Humidity	0~90% RH
External Dimension	Φ152 x 120mm(V)

3 Megapixel Full HD WDR WeatherProof Network IR Bullet Camera

The Smart Choice for IP-based HD Surveillance

NUT-6311D *3 Megapixel*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

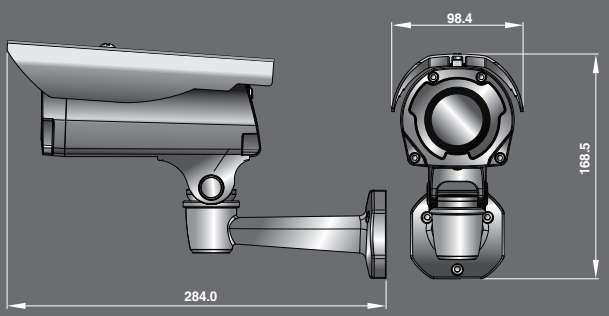
H.264 | PoE | ONVIF | Micro SD | D&N | DNR | BLC | IRLED | IP66 | Smart Focus | PC-less set up

Key Features

- 3M(2048x 1536) Resolution Supported
- Built in IR(32EA.)
- 2DNR(2 Dimensional Noise Reduction)
- WDR
- Day & Night (IR Cut Filter)
- Auto Focusing when D/N Transition
- Remote Zoom & Focus Control via Network
- Smart Focus
- Smart IR
- ONVIF Supported
- BLC(Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP66

Dimensions

Unit: mm



Technical Specification

Model	NUT-6311D
IMAGE	
Image Sensor	1/2.8" CMOS
Effective Pixels	2048(H) x 1536(V)
Lens	Tamron 3.0mm ~ 9mm, F1.2 Motorized Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.2Lux, B/W: 0Lux(F1.2, 50IRE with IR On)
AE/AWB	Yes
DNR	2DNR
D&N	True D&N (IR-cut filter)
WDR	Yes
BLC	Yes
Built-in IR	32EA, Max 25m
Remote-Focus	Smart-Focus
VIDEO	
Video Out	Yes (PIN Jack Style)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	QXGA, Full-HD, SXGA, HD, D1, VGA, CIF, QVGA
Frame Rate	3M Capture Mode : 20fps@2048x1536, Full-HD Capture Mode : 30fps@ All Resolution
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remocon	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP, NTP,DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, NC-Titanium, SmartManager
MISCELLANEOUS	
Weatherproof	Yes
PoE	802.3af Class 0
Wi-Fi	No
Power	PoE , DC12V
Power Consumption	Max. 7W
Operating Temperature	-10° C~ + 50° C / -30° C~ + 50° C (with Heater)
Humidity	0~90% RH
External Dimension	284 x 98.4 x 168.5 mm

2 Megapixel Full HD WDR 12X WeatherProof Network PTZ Camera

The Smart Choice for IP-based HD Surveillance

NMX-12031B1 PTZ

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

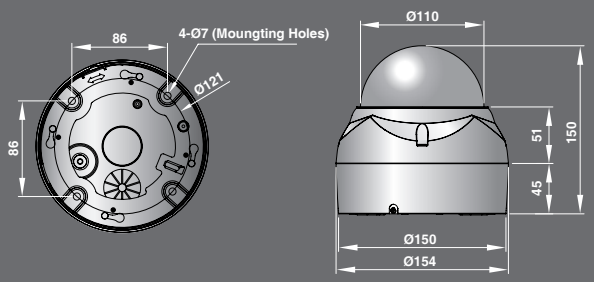
H.264 | PoE | ONVIF | D&N | DNR | BLC | IP66 | 60 fps

Key Features

- 12x Auto Focus Zoom Lens
- Full HD 60 Frame Supported (1920x1080p)
- Day & Night (IR Cut Filter)
- DIS (Digital Image Stabilization), Tampering, Defog, Object Detection Function
- BLC (Back Light Compensation)
- WDR(Wide Dynamic Range) Supported
- ONVIF Profile-S
- Two-way Audio
- Dual Compression (H.264, MJPEG)
- Triple Streaming
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Pre-recorded Voice Alert
- 360° Continuous Rotation
- 8 Privacy Zones
- 240 Presets, 8 Tours

Dimensions

Unit: mm



Technical Specification

Model	NMX-12031B1
IMAGE	
Image Sensor	1/2.8" SONY Exmor CMOS
Lens	5.32mm ~ 62.61mm 12x A/F Optical Zoom, 16x Digital Zoom
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.5Lux, B/W: 0.1Lux
AE/AWB	Yes
DNR	Yes
D&N	True D&N (IR-cut filter)
WDR	Yes
DIS	Yes
BLC	Yes
Video	
Progressive Encoding	Yes
Compression	H.264 (BP/MP/HP), MJPEG
Resolution Supported	1920 x 1080p
Max. Frame Rate	1080p@60/50fps, 1080p@30/25fps
Multiple Streaming	Triple Stream (2x H.264 and 1x MJPEG)
IN/OUT	
Audio In/Out	In x 1 / Out x 1 (G.711)
Alarm In/Out	In x 1 / Out x 1
RS-485	RS-485
Ethernet	10/100Mbps
FEATURE	
Motion Detection	Yes
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes
PrVA (Pre-recorded Voice Alert)	Yes (3 files)
Video Analytics	Yes
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes (Profile-S)
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes
Remote Client	Web, NC-Titanium, SmartManager
MISCELLANEOUS	
Weatherproof	IP66
PoE	802.3af Class 3
Power	24VAC / 12VDC / PoE
Power Consumption	12W
Operating Temperature	-10 ℃ ~ 45 ℃
Humidity	0 ~ 90% RH
External Dimension	Ø154 x 150 (H) mm
PTZ Funtion	
Pan Range	360° Endless
Pan Speed	Preset: Max.380°/sec, Manual: Max.380°/sec
Tilt Range	180° (0° ~ 180°)
Tilt Speed	Preset: Max.380°/sec, Manual: Max.300°/sec
Preset	240

2 Megapixel Full HD WDR 30X Network PTZ Camera

The Smart Choice for IP-based HD Surveillance

NFX-12033B1 *Standard*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

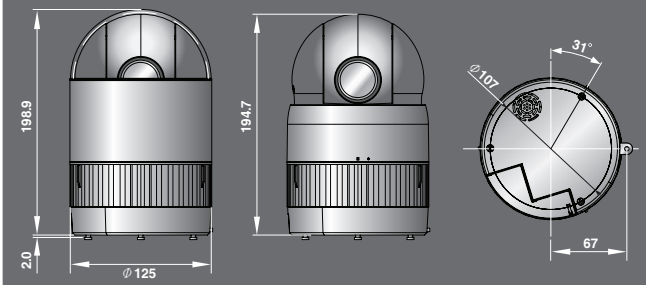
H.264 | PoE | ONVIF | D&N | DNR | BLC | IP66 | 60 fps

Key Features

- 30x Auto Focus Zoom Lens
- Full HD 60 Frame Supported (1920x1080p)
- Day & Night (IR Cut Filter)
- DIS (Digital Image Stabilization), Tampering, Defog, Object Detection Function
- BLC (Back Light Compensation)
- WDR(Wide Dynamic Range) Supported
- ONVIF Profile-S
- Two-way Audio
- Dual Compression (H.264, MJPEG)
- Triple Streaming
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Pre-recorded Voice Alert
- 360° Continuous Rotation
- 8 Privacy Zones
- 240 Presets, 8 Tours

Dimensions

Unit: mm



Technical Specification

Model	NFX-12033B1
IMAGE	
Image Sensor	1/2.8" SONY Exmor CMOS
Lens	4.3mm ~ 129.0mm 30x A/F Optical Zoom, 16x Digital Zoom
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.5Lux, B/W: 0.1Lux
AE/AWB	Yes
DNR	Yes
D&N	True D&N (IR-cut filter)
WDR	Yes
DIS	Yes
BLC	Yes
Video	
Progressive Encoding	Yes
Compression	H.264 (BP/MP/HP), MJPEG
Resolution Supported	1920 x 1080p
Max. Frame Rate	1080p@60/50fps, 1080p@30/25fps
Multiple Streaming	Triple Stream (2x H.264 and 1x MJPEG)
IN/OUT	
Audio In/Out	In x 1 / Out x 1 (G.711)
Alarm In/Out	In x 2 / Out x 1
RS-485	RS-485
Ethernet	10/100Mbps
FEATURE	
Motion Detection	Yes
Event Buffering (Pre & Post)	Yes
Privacy Masking	No
PrVA (Pre-recorded Voice Alert)	Yes (3 files)
Video Analytics	Yes
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes (Profile-S)
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes
Remote Client	Web, NC-Titanium, SmartManager
MISCELLANEOUS	
PoE	802.3at Class 4
Power	24VAC / 12VDC / PoE
Power Consumption	16W
Operating Temperature	0℃ ~ 50℃
Humidity	0 ~ 90% RH
External Dimension	Φ125 x 202(H) mm
PTZ Funtion	
Pan Range	360° Endless
Pan Speed	Preset: Max.380°/sec, Manual: Max.380°/sec
Tilt Range	200° (-10° ~ 190°)
Tilt Speed	Preset: Max.380°/sec, Manual: Max.300°/sec
Preset	240

2 Megapixel Full HD WDR 30X WeatherProof Network PTZ Camera

The Smart Choice for IP-based HD Surveillance

NFX-12053B1 *Standard*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

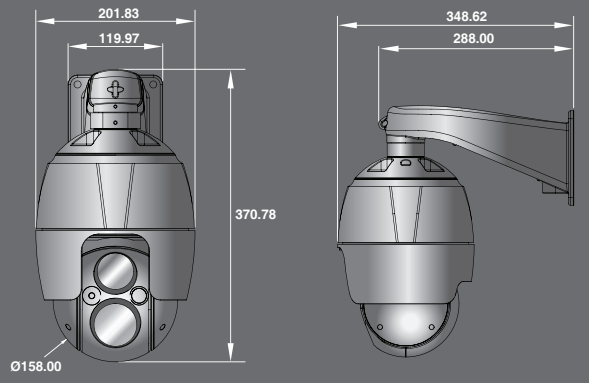
H.264 · PoE · ONVIF · D&N · DNR · BLC · IRLED · IP66 · 60 fps

Key Features

- 30x Auto Focus Zoom Lens
- Full HD 60 Frame Supported (1920x1080p)
- Synchronized IR LED (covers Wide and Tele up to 150M)
- Day & Night (IR Cut Filter)
- DIS (Digital Image Stabilization), Tampering, Defog, Object Detection Function
- BLC (Back Light Compensation)
- WDR(Wide Dynamic Range) Supported
- ONVIF Profile-S
- Two-way Audio
- Dual Compression (H.264, MJPEG)
- Triple Streaming
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Pre-recorded Voice Alert
- 360° Continuous Rotation
- 8 Privacy Zones
- 240 Presets, 8 Tours

Dimensions

Unit: mm



Technical Specification

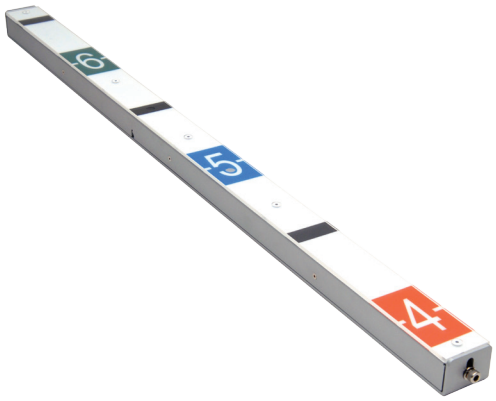
Model	NFX-12053B1
IMAGE	
Image Sensor	1/2.8″ SONY Exmor CMOS
Lens	4.3mm ~ 129.0mm 30x A/F Optical Zoom, 16x Digital Zoom
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.5Lux, B/W: 0.1Lux
AE/AWB	Yes
DNR	Yes
D&N	True D&N (IR-cut filter)
WDR	Yes
DIS	Yes
BLC	Yes
Built-in IR	Yes
Video	
Progressive Encoding	Yes
Compression	H.264 (BP/MP/HP), MJPEG
Resolution Supported	1920 x 1080p
Max. Frame Rate	1080p@60/50fps, 1080p@30/25fps
Multiple Streaming	Triple Stream (2x H.264 and 1x MJPEG)
IN/OUT	
Audio In/Out	In x 1 / Out x 1 (G.711)
Alarm In/Out	In x 1 / Out x 1
RS-485	RS-485
Ethernet	10/100Mbps
FEATURE	
Motion Detection	Yes
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes
PrVA (Pre-recorded Voice Alert)	Yes (3 files)
Video Analytics	Yes
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes (Profile-S)
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes
Remote Client	Web, NC-Titanium, SmartManager
MISCELLANEOUS	
Weatherproof	IP66
Power	12VDC
Power Consumption	36W (with IR)
Operating Temperature	-20 ℃ ~ 50 ℃
Humidity	0 ~ 90% RH
External Dimension	Φ201 x 370(H) mm
PTZ Funtion	
Pan Range	360° Endless
Pan Speed	Preset: Max.380°/sec, Manual: Max.380°/sec
Tilt Range	100° (-10° ~ 90°)
Tilt Speed	Preset: Max.380°/sec, Manual: Max.300°/sec
Preset	240
Optional Accessory	Power BOX (24VAC to 12VDC)

2 Megapixel Full HD WDR Network Height Camera

The Smart Choice for IP-based HD Surveillance

NHT-4201 *SPECIALTY*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264



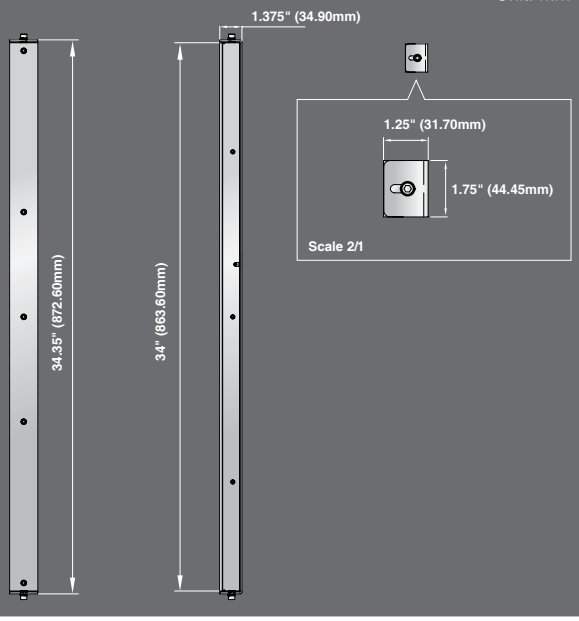
H.264 | PoE | ONVIF | Micro SD | DNR | BLC | Eye-level

Key Features

- Full-HD 1080p Resolution Supported
- 2DNR (2 Dimensional Noise Reduction)
- ONVIF Supported
- BLC (Back Light Compensation)
- WDR(Wide Dynamic Range) Supported
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NHT-4201
IMAGE	
Image Sensor	1/2.8" SONY Exmor CMOS
Lens	Megapixel Fixed Pin Hole 4.3mm F2.0
Scanning Mode	Progressive Scan
Min. Illumination	Color: 2.5Lux(F2.0, 50IRE) : T.B.D
AE	Yes
White Balance	Yes
DNR	Yes
D&N	No
WDR	Yes
DIS	No
BLC	Yes
Built-in IR	No
Remote-Focus	No
Video	
Video Out	No
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	1080p, 720p, D1, VGA, QVGA
Max. Frame Rate	1920x1080p@30fps
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	Terminal, 1 TTL input
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Inclue/Exclude windows)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remote Control	No
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	"IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP,NTP, DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,SNMP,Bonjour"
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Viewer	Web Client, 64ch VMS S/W, IP Utility S/W, Mobile Viewer(iOS, Android)
MISCELLANEOUS	
Weatherproof	No
PoE	802.3at Class 0
Wi-Fi	No
Power	PoE/DC12V
Power Consumption	4.0W
Operating Temperature	-10℃ ~ + 50℃
Humidity	0~90% RH
External Dimension	44.45(W) x 161.4(H) x 34.9(D) mm

2 Megapixel Full HD WDR Network Strip Camera

The Smart Choice for IP-based HD Surveillance

NHT-4202 *SPECIALTY*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

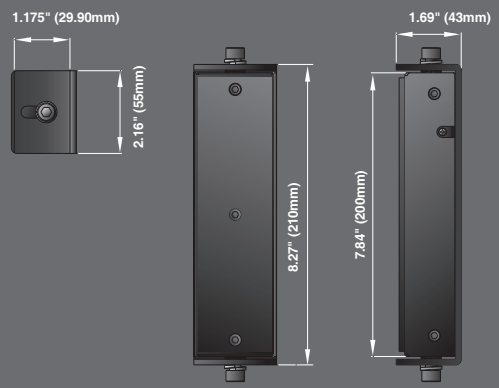
H.264 | PoE | ONVIF | Micro SD | DNR | BLC | Eye-level

Key Features

- Full-HD 1080p Resolution Supported
- 2DNR(2 Dimensional Noise Reduction)
- ONVIF Supported
- BLC(Back Light Compensation)
- WDR(Wide Dynamic Range) Supported
- Micro SD Supported
- Multiple Compression
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NHT-4202
IMAGE	
Image Sensor	1/2.8" Exmor CMOS
Lens	Megapixel Fixed Pin Hole 4.3mm F2.0
Scanning Mode	Progressive Scan
Min. Illumination	Color: 2.5Lux(F2.0, 50IRE)
AE/AWB	Yes
DNR	Yes
D&N	No
WDR	Yes
DIS	No
BLC	Yes
Built-in IR	No
Remote-Focus	No
VIDEO	
Video Out	No
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	Full-HD, SXGA, HD, D1, VGA, CIF, QVGA
Frame Rate	30 fps @ All Resolution
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Max 8 zones)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remocon	No
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP,NTP, DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,SNMP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, NC-Titanium, SmartManager
MISCELLANEOUS	
Weatherproof	No
PoE	802.3af Class 0
Wi-Fi	No
Power	PoE/DC12V
Power Consumption	330mA, 4W
Operating Temperature	-10° C~ + 50° C
Humidity	0~90% RH
External Dimension	55(W) x 210(H) x 43(D) mm

2 Megapixel Full HD WDR Network Tower Camera

The Smart Choice for IP-based HD Surveillance

NTT-4201 *SPECIALTY*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

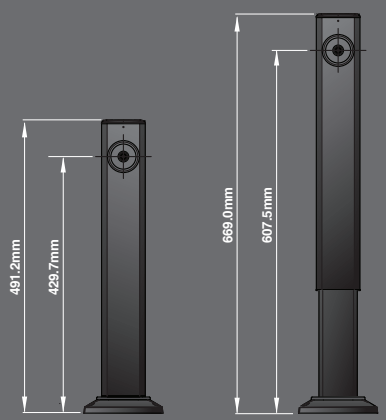
H.264 | PoE | ONVIF | Micro SD | DNR | BLC | Eye-level

Key Features

- Full-HD 1080p Resolution Supported
- 2DNR(2 Dimensional Noise Reduction)
- ONVIF Supported
- BLC(Back Light Compensation)
- WDR(Wide Dynamic Range) Supported
- Micro SD Supported
- Multiple Compression
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking

Dimensions

Unit: mm



Technical Specification

Model	NTT-4201
IMAGE	
Image Sensor	1/2.8" Exmor CMOS
Lens	Megapixel Fixed f 3.7mm F2.5
Scanning Mode	Progressive Scan
Min. Illumination	Color: 0.2Lux (F2.5, 50IRE)
AE/AWB	Yes
DNR	Yes
D&N	No
WDR	Yes
DIS	No
BLC	Yes
Built-in IR	No
Remote-Focus	No
VIDEO	
Video Out	No
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(SP), MJPEG
Resolution Supported	Full-HD, SXGA, HD, D1, VGA, CIF, QVGA
Frame Rate	30 fps @ All Resolution
Multiple Streaming	Triple Streaming
IN/OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Max 8 zones)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes
PrVA(Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remocon	No
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP,UDP,HTTP,RTP,RTSP,NTP, DHCP,SMTP,DDNS,HTTPS,RTCP,FTP,SNMP,Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, NC-Titanium, SmartManager
MISCELLANEOUS	
Weatherproof	No
PoE	802.3af Class 0
Wi-Fi	No
Power	PoE/DC12V
Power Consumption	DC12V – 330mA, 4W / PoE48V – 83mA, 4W
Operating Temperature	-10° C~ + 50° C
Humidity	0~90% RH
External Dimension	132(W) x 669(H) x 132(D) mm

3 Megapixel Full HD WDR Network Fisheye Camera

The Smart Choice for IP-based HD Surveillance

NDT-6341 *SPECIALTY*

» The network cameras offer advanced IP features and performance with FULL HD resolution real-time H.264

H.264 | PoE | ONVIF | SD Slot Micro SD | DNR | BLC | 360° FIsheye

Key Features

- 3M (2048x 1536) Resolution Supported
- 2DNR (2 Dimensional Noise Reduction)
- ONVIF Supported
- BLC (Back Light Compensation)
- WDR(Wide Dynamic Range) Supported
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Panoramic View
- Quad View

Technical Specification

Model		NDT-6341
IMAGE		
Lens		0.98mm(Short Axis) ~ 1.12mm(Long Axis), Fixed
View of Angle		182°(H) x 182°(V)
Image Sensor		1/2.8" Exmor CMOS
Min. Illumination		Color: 0.2Lux, B/W: 0.2Lux (F1.2, 50IRE)
Scanning Mode		Progressive Scan
Wide Dynamic Range(WDR)		Yes
Day and Night Mode		True IR-Cut Filter Day and Night
Noise Reduction		2D-NR
Digital Zoom		1x ~12x
Auto Exposure		Automatic
Auto White Balance		Automatic/Incandescent/Fluorescent/Outdoor
Back Light Compensation		Enable/Disable Selectable
Image Effect		Flip, Mirror
Flicker free Mode		60Hz/50Hz Selectable
Shutter Speed		1/20,000 ~ 1/4S
VIDEO/AUDIO		
Video Compression		H.264(High, Main, Base line profile), MPEG4(SP), MJPEG
Video Resolution		2048x1536(3M), 1920x1080(Full-HD), 1280x1024(SXGA), 1280x720(HD), 704x576/480(D1), 640x480(VGA), 352x288/240(CIF), 320x240(QVGA)
Video Frame Rate		3M mode : 20fps Full-HD Capture Mode : 30fps in all resolutions
Video Streaming		Simultaneously H.264(or MPEG-4) and MJPEG Controllable Frame Rate and Bandwidth VBR/CBR H.264 and MPEG-4
Multi-View Streaming		360° Overview, Panoramic, Double Panoramic, Quad View
Video Composite Out		NTSC/PAL Selectable
SYSTEM		
FTP Uploading		MJPEG Still Image
Privacy Mask		Maximum Number of 8 Masks
Event Notification		E-mail, FTP, HTTP Server, Event Notification
Audio Alert		No
Login		Administrator/Operator/Guest
Event Buffering	FTP	Pre : 30sec, Post : 30sec
	SD Record	Pre : 10sec, Post : 60sec
Manual Trigger		Still Image Capture, Alarm Signal out
Security		Multi User Authority, IP Filtering, HTTPS, SSL
Network Time Sync		Synchronize Computer/NTP Server, Manual
Software Reset		Restart/Reset/Factory Default
Auto Recovery		Backup/Restore
Remote Upgrade		Using Web Browser or SmartManager
SD Recording Mode		Onboot/Trigger/Motion/Network Loss
NETWORK		
Protocols		TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, QoS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour
Client Software		Built-In Web, Setup Utility(Bundle), VMS(Bundle)
Max. User Connection		Live : 10 Users, Playback : 3 Users
API Support		Open API, ONVIF Compliant
Mobile Support		Android, i-OS
EXTERNAL IN/OUT		
Analog Out		3.5mm Stereo Jack, Composite Out for Installation, 1.0Vp-p, 75Ω
Audio		No
Alarm		1 TTL Sensor Input Terminal, 1 Open Collector Output Terminal
Ethernet		RJ-45(10/100Base-T)
u-SD Card		SDHC, Max. 32GB, Over Class6
ETC		
Operating Humidity		0~90% (non-condensing)
Operating Temperature		-10℃ ~ + 50℃
Power Supply		DC12V, PoE(IEEE802.3af compliant, Class0)
Power Consumption		DC12V 350mA(4.2W), PoE 100mA(4.2W)
External Dimensions		119(D) mm x 64.6(H) mm

NVR

[NVR Specification Comparison chart]

	Group	Edge		Venus		Jupiter Plus				Titanium Plus	
	Model	HNR-E10450	HNR-E20450	HNR-4418	HNR-8418	HNR-8410(2)	HNR-16410(2)	HNR-8413	HNR-16413	HNR-T4000	HNR-T6400
OS	Linux embedded	V	V	V	V	V	V	V	V		
	window embedded									V	V
Channel	4	V	V	V							
	8				V	V		V			
	16						V		V		
	40									V	
	64										V
Recording	More than Full HD									V	V
	Full HD	V	V	V	V	V	V	V	V		
Display	HDMI			V	V	V	V	V	V	V	V
	DVI									V	V
	VGA			V	V	V	V	V	V	V	V
POE Port	4			V	V						
	8					V					
	16						V				
Miscellaneous	WiFi		V								
	e-SATA			V	V	V	V	V	V	V	V
	POS/ATM			V	V	V	V	V	V	V	V
	Mobile	V	V	V	V	V	V	V	V	V	V
	Onvif	V	V	V	V	V	V	V	V	V	V
	3rd Party			V	V	V	V	V	V	V	V

Network Video Recorder
4CH Entry-Level NVR

The Smart Choice for IP-based HD Surveillance

HNR-E10450/E20450 *Edge*

The edge NVR HNR-E10450, E20450 (Wifi) provides recording capabilities up to 4 camera inputs. It provides exceptional picture quality in both live and playback modes at a cost effective price.

Key Features

- 4 IP camera inputs
- Full HD Real-time Recording
- Easy Install & Use
- ONVIF support
- Built-in Wifi Access Point
- Date/Time, Event Type for Event Search
- Mobile Viewer Support for Android and iOS
- DDNS, UPnP, NAT Traversal, Zero Configuration

Technical Specification

Model	HNR-E10450 / HNR-E20450 (Wifi)
Video	
IP Camera Input	Full-HD x 4ch
Supported Cameras	ONVIF based network cameras
Supported Video Format	H.264, MPEG-4, MJPEG
Supported Video Resolution	320x240 ~ 2048x1536
Recording	
Recording Mode	Schedule, Text-In, Event
Pre-Alarm Recording	Up to 15 Seconds
Frame Rate (NTSC)	Max. 120fps @ 1920x1080
Frame Rate (PAL)	Max.100fps @ 1920x1080
Search	
Search Mode	Calendar, Time, Event, Text-In, Bookmark
Playback	
Playback Control	PLAY, Rev PLAY, Pause, Stop, FF, FR, Step Forward, Step Backward, Goto First, Goto Last
Network	
Bandwidth Control	Automatic
No. of simultaneous users	3
Supported Protocol	TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, QoS, FTP, SNMP, uPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconfig, Bonjour
User Registration	20
Monitoring	NC-Titanium Software, Built-in web browser
Mobile Viewer	iOS(iPhone, iPad), Android(SmartPhone, Tablet)
Wi-Fi AP	WPS Supported (HNR-E20450 only)
Storage	
Internal HDD	Up to 1 SATA
External HDD	External 4Pin & 1 SATA port
Input/Output	
Alarm	Sensor Input x 8ea, Alarm Output x 8ea
Ethernet	1 x 100/1000 Base-T
USB	2 x USB2.0
eSATA	1 External SATA port
Electrical	
Power Source	100 ~ 240 V AC ±10%, 50/60 Hz, Auto ranging
Power Adaptor	DC 12V 5A
Environment	
Operating Temperature	0°C ~ +45°C (+36°F ~ +114°F)
Humidity	0%RH ~ 90%RH
Mechanical	
Dimension (W x H x D)	190 x 60 x 218 mm
Weight	1.3kg, Without HDD

Network Video Recorder
4/8CH High-End PoE NVR

The Smart Choice for IP-based HD Surveillance

HNR-4418/HNR-8418 *VENUS*

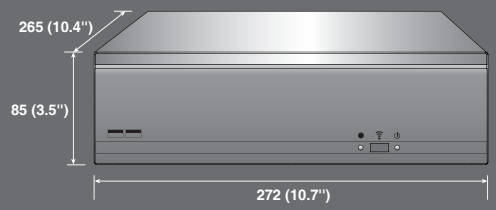
VENUS series is the cost-effective network video recorder which allow you all Open IP, Closed IP and all 1080p, 720p, 960H and D1 resolutions. With its DVR like Plug&Play features and operations, you will not see any huddle to use it.

Key Features

- 4 IP camera inputs with embedded PoE and Gigabit Ethernet switch
- Realtime recording of all channels
- Dual streaming for live and recording
- Auto IP camera detection and configuration
- Gigabit Ethernet
- Both Open IP and Cloded IP connection
- Onvif, DDVRLS, DDNS, NAT Traversal, Zero Configuration
- Full HD (1920 x 1080P) display on HDMI and VGA
- 1 eSATA + 2 Internal hard disc drives
- 2 USB interface
- S.M.A.R.T. hard disc check
- POS/ATM text recording and search
- VCA with dedicated cameras
- Protect Video / Audio clip from overwrite
- Still Image capture and direct print
- Authentication of data from reproduction and falsification
- Adjustable recording frame rate and resolution
- Video / Audio data backup in AVI / H.264 format
- Configuration file Import/Export & Camera setup cloning
- Advanced event search function
- System / Event log file management
- Support 48 languages

Dimensions

Unit: mm



Technical Specification

	CATEGORY	HNR-4418	HNR-8418
IP Camera Input	Input	4 x RJ45 camera input port	4x RJ45 camera input port (IP CAM PORT(4ch))
	Embedded Ethernet Switch	Yes (IEEE 802.11a/b/g/n)	
	Embedded PoE Switch	Yes (IEEE 802.3af)	
	Resolution	VGA/D1/960H/960p/1080p	
	Protocol	Onvif v2.2 base	
Monitor Output	HD Video Output	VGA, HDMI	
	Main Video Resolution	Up to 1920x1080p	
	Screen Split Mode	1/4	1/4/6/8/9
	PIP and Zoom	Yes	
	Audio Output	1 x RCA	
Pentaplex Mode		Simultaneous Live, Recording, Playback, Backup, Network	
Mobile phone support		App for Android and iOS	
Recording	Frame Rate	Adjustable frame rate for each camera	
	Recording Ways	Manual, Schedule, Event (motion, sensor), Network driven	
	Recording FPS	4ch x 30fps@ 1080p (4Mbps)	8ch x 30fps@ 1080p (4Mbps)
	Protect Video / Audio File	Protect Video / Audio from HDD Overwrite	
	Still Image Capture	Live or Playback Image Local Capture and Backup for legal evidence	
	Internal Hard Drive	SATA, Up to 2 x HDDs	
	External Hard Drive	E-Sata	
Remote Monitoring / Control		Remote View and Control via Gigabit Ethernet	
		Dynamic / Static / Zero Config Support	
		Web Viewer and VMS Support	
		NAT Traversal Support	
		Dual Streaming for Live and Recording	
		E-Map support	
Playback	Playback Screen Mode	Full, Quad	
	Search Mode	Date/Time, Calendar, Event, Motion, Protect, Capture, VCA, Text	
Alarm Control	External Sensor Input	4CH NC / NO	
	Alarm Output	Buzzer, OSD, 4 x Relay	
Data Backup		2x USB 2.0 Flash Memory	
		AVI Format for Easy Viewing, Private Format for Image Authentication	
Others	Video Content Analysis	Yes (with specific cameras)	
	POS / ATM	Yes (with VSI/VSSI-Pro)	
	NTP Server / Client	Yes	
	System Keyboard	Support	
	Printer	USB or Network Printer	
	Control	IR Remote Control, USB Mouse, Client software	
	Event Log & Pre-Alarm Record	System/Event Log management, Pre-recording for Motion/Sensor	
	Auto Deletion	Setup Recording Duration Per Channel	
	Languages	48 Languages Support	
	Power Supply	DC 48V / 3.1A	
	Dimensions	272 x 265 x 85 mm (10.7 x 10.4 x 3.5 inch)	

Network Video Recorder
8/16CH High-End PoE NVR

The Smart Choice for IP-based HD Surveillance

HNR-8410(2)/HNR-16410(2) JUPITER PLUS

Standalone PoE NVR HNR-8410(2), HNR-16410(2) is the most advanced network video recorder in security industries which allow you all Open IP, Closed IP and all 1080p, 720p, 960H and D1 resolutions. With its DVR like Plug&Play features and operations, you will not see any huddle to use it

[HNR-8412, 16412 series]

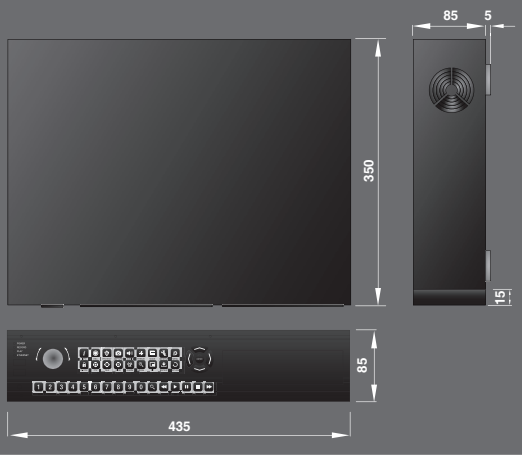
[HNR-8410, 16410 series]

Key Features

- 8/16 IP camera inputs
- Embedded PoE and Gigabit Ethernet switch optional
- Full HD Realtime recording of all channels
- Full HD (1920 x 1080P) display on HDMI and VGA
- Dual streaming for live and recording
- Auto IP camera detection and configuration
- Gigabit Ethernet
- Both Open IP and Closed IP connection
- Onvif, DDVRLS, DDNS, NAT Traversal, Zero Configuration
- 1 eSATA + 4 Internal hard disk drives
- 2 USB interface and DVD Burner (xx410 series only)
- S.M.A.R.T. hard disc check
- POS/ATM text recording and search
- VCA with dedicated cameras
- Protect Video / Audio clip from overwrite
- Still Image capture and direct print
- Authentication of data from reproduction and falsification
- Adjustable recording frame rate and resolution
- Video / Audio data backup in AVI / H.264 format
- Configuration file Import/Export & Camera setup cloning
- Advanced event search function
- System / Event log file management
- Support 48 languages

Dimensions

Unit: mm



Technical Specification

CATEGORY		8CH (HNR-8410(2))	16CH(HNR-16410(2))
IP Camera Input	Input	8 x RJ45	16 x RJ45
	Embedded Ethernet Switch	Yes (IEEE 802.11a/b/g/n)	
	Embedded PoE Switch	Yes (IEEE 802.3af)	
	Resolution	VGA/D1/960H/720p/1080p	
	Protocol	Onvif v2.2 base	
Monitor Output	HD Video Output	VGA, HDMI	
	SD Video Output	Composite Spot 1, Composite Spot 2	
	Main Video Resolution	Up to 1920x1080p	
	Screen Split Mode	1/4/6/8/9	1/4/6/8/9/13/16
	PIP and Zoom	Yes	
	Audio Output	1 x RCA	
Pentaplex Mode		Simultaneous Live, Recording, Playback, Backup, Network	
Mobile phone support		App for Android and iOS	
Recording	Frame Rate	Adjustable frame rate for each camera	
	Recording Ways	Manual, Schedule, Event (motion, sensor), Network driven	
	Recording FPS	8ch 1080p x 30fps@4Mbps	16ch 1080p x 30fps@4Mbps
	Protect Video / Audio File	Protect Video / Audio from HDD Overwrite	
	Still Image Capture	Live or Playback Image Local Capture and Backup for legal evidence	
	Internal Hard Drive	SATA, Up to 4 x HDDs	
	External Hard Drive	E-Sata	
Remote Monitoring / Control		Remote View and Control via Gigabit Ethernet	
		Dynamic / Static / Zero Config Support	
		Web Viewer and VMS Support	
		NAT Traversal Support	
		Dual Streaming for Live and Recording	
		E-Map support	
Playback	Playback Screen Mode	1/4/9/13	1/4/9/13/16
	Search Mode	Date/Time, Calendar, Event, Motion, Protect, Capture, VCA, Text	
Alarm Control	External Sensor Input	8CH NC / NO	16CH NC / NO
	Alarm Output	Buzzer, OSD, 4 x Relay	
Data Backup		2x USB 2.0 Flash Memory, DVD burner (xx410 series only)	
		AVI Format for Easy Viewing, Private Format for Image Authentication	
Others	Video Content Analysis	Yes (with specific cameras)	
	POS / ATM	Yes (with VSI/VSSI-Pro)	
	NTP Server / Client	Yes	
	System Keyboard	Support	
	Printer	USB or Network Printer	
	Control	Buttons, IR Remote Control, USB Mouse, Client software	
	Event Log & Pre-Alarm Record	System/Event Log management, Pre-recording for Motion/Sensor	
	Auto Deletion	Setup Recording Duration Per Channel	
	Languages	48 Languages Support	
	Power Supply	DC 12V / 6A /DC 48V / 3.3A	
	Dimensions	435 x 350 x 85 mm (17 x 14 x 3.5 inch)	

Network Video Recorder
8/16CH High-End NVR

The Smart Choice for IP-based HD Surveillance

HNR-8413/HNR-16413 *JUPITER PLUS*

Standalone PoE NVR HNR-8413, HNR-16413 is the most advanced network video recorder in security industries which allow you all Open IP, Closed IP as well as all 1080p, 720p, 960H and D1 resolutions.
With its DVR like Plug&Play features and operations, you will not see any huddle to use it

Key Features

- 8/16 IP camera inputs
- Full HD Realtime recording of all channels
- Full HD (1920 x 1080P) display on HDMI and VGA
- Dual streaming for live and recording
- Auto IP camera detection and configuration
- Gigabit Ethernet
- Both Open IP and Closed IP connection
- Onvif, DDVRLS, DDNS, NAT Traversal, Zero Configuration
- 1 eSATA + 4 Internal hard disk drives
- 2 USB interface
- S.M.A.R.T. hard disc check
- POS/ATM text recording and search
- VCA with dedicated cameras
- Protect Video / Audio clip from overwrite
- Still Image capture and direct print
- Authentication of data from reproduction and falsification
- Adjustable recording frame rate and resolution
- Video / Audio data backup in AVI / H.264 format
- Configuration file Import/Export & Camera setup cloning
- Advanced event search function
- System / Event log file management
- Support 48 languages

Dimensions

Unit: mm

Technical Specification

CATEGORY		HNR-8413	HNR-16413
IP Camera Input	Input	8	16
	Embedded Ethernet Switch	Yes (IEEE 802.11a/b/g/n)	
	Embedded PoE Switch	No	
	Resolution	VGA/D1/960H/720p/1080p	
	Protocol	Onvif v2.2 base	
Monitor Output	HD Video Output	VGA, HDMI	
	SD Video Output	Composite Spot 1, Composite Spot 2	
	Main Video Resolution	Up to 1920x1080p	
	Screen Split Mode	1/4/6/8/9	1/4/6/8/9/13/16
	PIP and Zoom	Yes	
	Audio Output	1 x RCA	
Pentaplex Mode		Simultaneous Live, Recording, Playback, Backup, Network	
Mobile phone support		App for Android and iOS	
Recording	Frame Rate	Adjustable frame rate for each camera	
	Recording Ways	Manual, Schedule, Event (motion, sensor), Network driven	
	Recording FPS	8ch 1080p x 30fps@4Mbps	16ch 1080p x 30fps@4Mbps
	Protect Video / Audio File	Protect Video / Audio from HDD Overwrite	
	Still Image Capture	Live or Playback Image Local Capture and Backup for legal evidence	
	Internal Hard Drive	SATA, Up to 4 x HDDs	
	External Hard Drive	E-Sata	
Remote Monitoring / Control		Remote View and Control via Gigabit Ethernet	
		Dynamic / Static / Zero Config Support	
		Web Viewer and VMS Support	
		NAT Traversal Support	
		Dual Streaming for Live and Recording	
		E-Map support	
Playback	Playback Screen Mode	1/4/9/13	1/4/9/13/16
	Search Mode	Date/Time, Calendar, Event, Motion, Protect, Capture, VCA, Text	
Alarm Control	External Sensor Input	8CH NC / NO	16CH NC / NO
	Alarm Output	Buzzer, OSD, 4 x Relay	
Data Backup		2x USB 2.0 Flash Memory, DVD burner (xx410 series only)	
		AVI Format for Easy Viewing, Private Format for Image Authentication	
Others	Video Content Analysis	Yes (with specific cameras)	
	POS / ATM	Yes (with VSI/VSSI-Pro)	
	NTP Server / Client	Yes	
	System Keyboard	Support	
	Printer	USB or Network Printer	
	Control	Buttons, IR Remote Control, USB Mouse, Client software	
	Event Log & Pre-Alarm Record	System/Event Log management, Pre-recording for Motion/Sensor	
	Auto Deletion	Setup Recording Duration Per Channel	
	Languages	48 Languages Support	
	Power Supply	DC 12V / 6A /DC 48V / 3.3A	
	Dimensions	435 x 350 x 85 mm (17 x 14 x 3.5 inch)	

Network Video Recorder
40/60CH Enterprise NVR

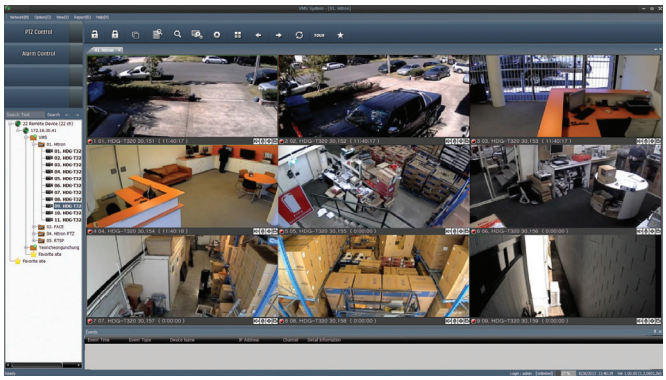
The Smart Choice for IP-based HD Surveillance

HNR-T4000/T6400 *TITANIUM PLUS*

- Enterprise class VMS solution mounted NVR
- Open Platform S/W supporting hundreds of 3rd party devices
- Monitor all 64ch @ D1 in real time (30fps) in a single system: NVR64
- Record all 64ch @ Full HD(1080p, 30fps) in a single system: NVR64
- The world fastest Codec Open264 H.264 Codec applied (patented)
- Government city-wide surveillance reference of 23,000ch+

Key Features

- Enterprise class NVR – Titanium+ Standard VMS supported
- Open Platform Software supporting hundreds of 3rd Party cameras and devices
- Support various megapixel camera manufacturers
- Installed OS: Windows 7 or XP
- Support 38 brands of POS
- 2-Way audio unlimited support
- PTZ , Preset, Touring, Auto return control
- Favorite Camera, Location registration feature
- Multi-screen layer possible
- PTZ Control: On-screen, Joystick, Mouse, Control Panel
- Many Event Notification levels
- Auto live image/audio pop-up upon event triggered
- Easy and intuitive investigation/search window



Technical Specification

Classification	Sub-category		HNR-T6400	HVR-T4000
Video	Input		64 IP video ch	40 IP video ch
	Output		1 x DVI 1 x HDMI 1 x D-sub VGA	1 x DVI 1 x HDMI 1 x D-sub VGA
	Multi Monitor		Dual Monitor	Dual Monitor
Live Display	Performance (H.264 or MPEG4)		Max. 30fps/ch (dependent on network bandwidth & environment)	
		D1	1920fps	1200fps
		720p	960fps	630fps
		1080p	480fps	270fps
	Resolution		1024x768 or higher	
	Screen Mode		1/2/4/6/9/10/13/16/25/36/49/64	1/2/4/6/9/10/13/16/25/36/49
System	CPU		Intel Ivy Bridge Platform	
Codec	Video		H.264, MJPEG, MPEG4, Wavelet	
	Audio		G.711, G.723, G.726	
	Remark		The world fastest H.264 codec (Codec Open264, patented) used. Dependent on IP video source.	
Audio	Input		64 IP audio ch	40 IP audio ch
Alarm	In/Out		64/64	40/40
Recording	Performance (H.264 or MPEG4 or JPEG)	CIF	1920fps	1200fps
		2CIF	1920fps	1200fps
		4CIF & D1	1920fps	1200fps
		720p	1920fps	1200fps
		1080p	1920fps	1200fps
	Storage	Internal	Max. (8) SATA HDD	
		Base HDD	3TB	3TB
		Max. Capacity	32TB(w/ 4TB HDD)	32TB(w/ 4TB HDD)
		Supported Output	Max. (8) Sa USB 3.0 & 2.0, SATA 6.0Gb/s, SATA 3.0Gb/s, eSATA3, IEEE 1394 Port RAID 0, RAID 1, RAID 5, RAID 10 support	
		External	Optional: DAS, SAS, iSCSI(IPSAN), SAN-	
	Event		5 Event Notification Levels. E-mail, SMS or sound alert, Real-time Window pop-up	
	Video Recording		Continuous, record only when Alarm, Event or Motion detected, dual/triple stream, scheduled recording by hour/day/week	
	Parameters	Frame Rate	1-30fps per channel (user definable for each ch)	
		Resolution	QCIF / CIF / 2CIF / 4CIF / D1 / HD / FULL HD. (dependent on source device video resolution)	
	Alarm Source		Sensor Input, Motion Detection	
	Other		Auto-Recovery, Digital Zoom, Two-way audio, Favorite Menu, Privacy Masking	
Search/ Playback	Screen Mode		1/2/4/6/9/10/13/16	
Backup	Media		Local HDD, Local USB 3.0, Remote Client PC	
	Format		AVI or JPEG	
Control	Control		Mouse / Keyboard (PS2 or USB)	
Ethernet	RJ-45 (Gigabit)		Giga Bit Ethernet Port	
General	Operating Temp		41 — 104 degrees F. (5-40 degrees C.)	
	Operating Humidity		20 — 70%	
Mechanical	(D x W x H in cm)		560 X 482.6 X 87 mm (22" x 19" x 3.5")	
Power	Input		100-240V / 50-60Hz Redundant Power Supply	

Smart Dynamic USB Keyboard

The Perfect Addition to Any CCTV System

HUK5000N(P) USB KEYBOARD CONTROLLER

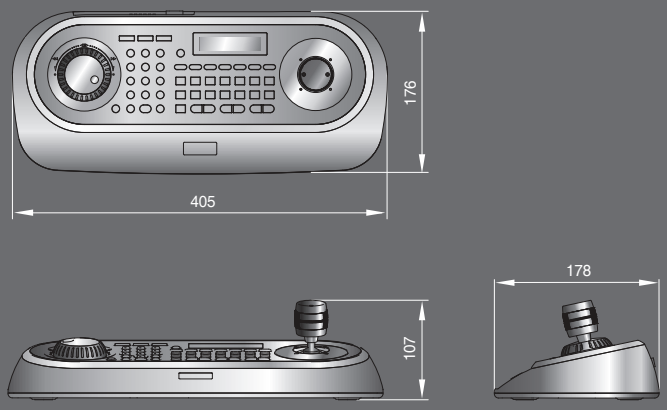
The HUK5000N(P) USB Keyboard is an ideal add-on to VMS systems, and DVR by using a plug and play USB interface. It is designed to handle surveillance systems/grids of up to 508 PTZ dome cameras, DVRs and a multiplexer with simple yet precise movements.
The keyboard enables control of live and recorded video with a 3-axis joystick and a jog/shuttle dial. Multi-function keys and an LCD display provide feedback to the operator for seamless operation.

Key Features

- USB interface for easy plug and play
- 3-Axis Joystick Control of PTZ Functions
- Multi-function keys and LCD display
- Jog Dial for Smoother Control of DVR
- Recalls up to 508 Cameras
- Excellent System Compatibility with Multiple Protocols
- Stylish Design

Dimensions

Unit: mm



Technical Specification

Model	HUK5000N (NTSC)	HUK5000P (PAL)
Communication		
Interface	RS-485/232/USB	
Data Port	Dome 1/2(Terminal Block), RS-232, Micro USB	
Baud Rate	2,400 ~ 38,400bps (USB mode is only 9,600bps)	
Control Unit	Up to 508 Dome Cameras Including Alarm Mode On Slave Keyboard(not supported in USB mode "ON") /DVR/Multiplexer	
Protocol	Pelco-P/D, Fll, Flle	
RS232	DVR/Upgrade	
USB	USB Interface Control	
Operational		
LCD Display	16x2 Line LCD	
Joystick	3 Axis twist zoom	
Jog Shuttle	DVR playback control	
On Screen Display	English	
Environmental		
Operating Temperature	0℃~ 50℃	
Operating Humidity	0 ~ 90% (Non-condensing)	
Electrical		
Input Voltage / Current	12V DC	
Powr Consumption	6W	
Mechanical		
Dimension (WxHxD)	405 x 176 x 107 mm (15.9" x 6.9" x 4.2")	
Weight	1.2Kg	

CAMERA MOUNTS

TYPE	MODEL		RELEVANT MODELS
Wall Mount	HCS-822		Box Camera
Speed Dome Outdoor Housing	HDH304-OC		Speed Domes
Speed Dome Flush Mount	HCS251-HV		Speed Domes
Speed Dome Wall Mount	HDB242		HDH304 housing
Speed Dome Ceiling Mount	HDB241		HDH304 housing
Co rner Mount	HCM150		Speed Dome Wall / Ceiling Mount
Pole Mount	HCM151		Speed Dome Wall / Ceiling Mount
Wall Mount	HDB243		VP Domes and Minitrax
	HVPWB2		VP Domes and Minitrax
Ceiling Mount	HVPCB2		VP Domes and Minitrax
Conduit Spacer	HDA301		VP Domes and Minitrax
Flush Mount	HCS253-VS7		VP Domes
Junction Box	HJB200		Bullet Cameras

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Design and Specifications are subject to change without notice.
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